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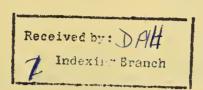


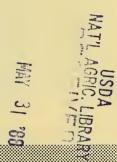
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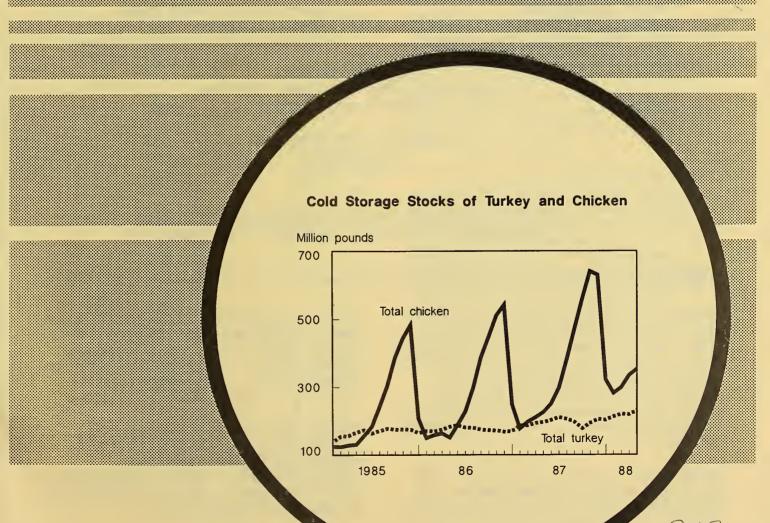
LPS-29 May 1988

Livestock and Poultry

Situation and Outlook Report







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Approved by the World Agricultural Outlook Board. Summary released Thursday, May 5, 1988. The next summary of the *Livestock and Poultry Situation and Outlook* is scheduled for release on July 13, 1988. Summaries of Situation and Outlook reports, including tables, may be accessed electronically through the USDA EDI system. For details, call (202) 447–5881.

The present forecasts will be updated in the World Agricultural Supply and Demand Estimates scheduled for release on June 9 and July 7, 1988. The Livestock and Poultry

Situation and Outlook is published six times a year. Annual subscription: \$8.50 U.S., \$10.65 foreign. Order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to the Superintendent of Documents.

Current subscribers will receive renewal notices from the Government Printing Office approximately 90 days before their subscription expires. Notices will be sent ONLY ONCE and should be returned promptly to ensure uninterrupted service.

SUMMARY

Returns to livestock and poultry producers in 1988 are expected to decline from a year earlier and possibly be negative at times due to record—large red meat and poultry supplies for the sixth straight year. Reduced beef supplies are being more than offset by increased volumes of pork and poultry. Feed costs are rising due to expanding exports, increased domestic use, and reduced production.

Broiler production is expected to increase 5 percent this year from 1987, with most of the increase coming during the first half. Wholesale prices in the first quarter were well below last year, but are expected to strengthen to 44–50 cents per pound during the summer, slightly below last year. Turkey output in the first quarter was up 25 percent from 1987, but reduced poult placements indicate a slowdown later this year. Slaughter for 1988 may be up 9 percent. Wholesale hen turkey prices are expected to recover somewhat from recent lows to 52–58 cents per pound in the third quarter.

Egg production during first-quarter 1988 rose 1.5 percent from a year earlier, but producers are adjusting to lower prices, as reflected in increased slaughter of older hens. Production through the rest of the year is expected to decrease slightly, with total 1988 output falling about 1 percent from 1987. Prices in the second quarter could average 50-54 cents per dozen and rise to the low 60-cent range during the second half, up slightly from 1987.

The March Hogs and Pigs report indicated producers continue to slowly increase their breeding herds. Commercial pork production was up 7 percent from a year ago during first-quarter 1988. Compared with 1987, production is projected to be 10 percent larger in the second quarter, 8 percent larger in the third, and about the same in the fourth. Returns to producers may fall to near breakeven before the third quarter ends, and negative returns are possible in the fall. Barrow and gilt prices are expected to average \$44-48 per cwt in the second quarter and \$44-50 in the third.

Cattle on feed on April 1 were up 6 percent from a year ago. Beef production likely will rise above a year earlier in the second quarter due to more fed cattle in the slaughter mix and heavier dressed weights. Larger fed cattle marketings and large supplies of other meats are expected to result in Choice steer prices averaging in the mid-to-upper \$60's in the second and third quarters. Returns above cash costs for cow-calf producers are expected to remain positive in 1988, but returns to Great Plains cattle feeders may turn negative during the late spring and summer.

Exports of most livestock and poultry products have increased sharply, partially reflecting the reduced value of the dollar against foreign currencies and the Export Enhancement Program for poultry. Exports will remain generally strong this year, although beef exports may decline modestly with the phaseout of shipments associated with the Dairy Termination Program.

Table I--Livestock, poultry, and egg production and prices (Percent changes are from a year earlier.)

ltem	1986 Annual		<u></u> -	1987	-1ν	Annual		П	1988 1/	10	Annual
		`									
					Mil	lion pour	nds				
PRODUCTION:					,	, , , , , , , , , , , , , , , , , , , ,					
Beef	24,213	5,754	5,737	6,064	5,850	23,405	5,696	5,800	5,800	5,450	22,746
% change	+3	0	-8	-3	-1	-3	-1	+1	-4	-7	-3
Pork	13,998	3,540	3,327	3,384	4,061	14,312	3,787	3,675	3,650	4,025	15,137
% change	-5	- 76	-7 7	+5	+12	+2	+7	+10	+8	-l	+6
Lamb & mutton	331 -6	76 -16	75 -4	77 - 5	81 -l	309 -7	85 +12	78 +4	80 +4	83 +2	326
% change Veal	-6 509	112	101	99	104	416	+12 97	90	100	110	+6 397
% change	+2	-13	-22	-23	-15	-18	-13	-11	+1	+6	-5
Total red meat	39,051	9,482	9,240		10,096	38,442	9,665	9,643	9,630	9,668	38,606
% change	0	-1	-8	-1	+4	-2	+2	+4	0	-4	0
Broilers 2/	14,266	3,735	3,907	3,966	3,895	15,502	4,000	4,175	4,150	3,950	16,275
% change	+5	+9	+6	+10	+9	+9	+7	+7	+5	+1	+5
Turkeys 2/	3,133	670	865	1,100	1,082	3,717	835	975	1,130	1,120	4,060
% change	+12	+20	+21	+17	+17	+19	+25	+13	+3	+4	+9
Total poultry 3,		4,538	4,927 +9	5,195	5,112 +11	19,772 +10	4,988 +10	5,310 +8	5,410 +4	5,200 +2	20,907 +6
% change Total red meat	+6	+10	+7	+11	+11	+10	+10	+0	+4	+2	+0
& poultry	56,980	14,020	14,167	14,819	15,208	58,214	14,653	14,953	15,040	14,868	59,513
% change	+2	+3	-3	+3	+6	+2	+5	+6	+1	-2	+2
					Mil	lion doze	en				
Eggs	5,705	1,440	1,438	1,439	1,479	5,797	1,463	1,420	1,415	1,465	5,763
% change	0	+1	+1	+2	+2	+2	+2	-1	-2	-1	-1
PRICES:					Dol	lars per	cwt				
Choice steers,					501	idis per	CW.				
Omaha, 1000-											
1100 lb	57.75	60.46	68.60	65.04	64.31	64.60	68.28	68-72	63–69	64-70	64-70
Barrows & gilts	s,										
7 mkts	51.19	48.11	56.18	58.97	43.51	51.69	9 44.74	44-48	3 44–50	40–46	42-48
Slaugh. lambs,	70.20	. 00 27	90.82	72.00	60.76	78.08	81.51	78-82	2 69-75	68-74	73-79
Ch., San Ang.	70.26	80.27	90.02	72.90	68.36	70.00	01.01	70-02	2 09-10	00-74	1 1-13
	Cents per pound										
Broilers,	4/ 56.9	50.0	48.2	48.7	42.5	47.4	45.4	46-50) 44-50	40-46	43-49
12-city avg.	7/ 70.9	70.0				47.4		40-70	<i>,</i> -+-1)(, -,0,0	
Turkeys, NY 5/	72.2	58.0	56.4	56.2	60.6	57.8	48.9	46-50) 52–58	54–60	49-55
					Cer	nts per do	ozen				
Eggs											
New York 6/	71.1	64.8	58.9	63.5	59.2	61.6	55.0	50-54	58-64	63–69	52-62

^{1/} Forecast. 2/ Federally inspected. 3/ Includes broilers, turkeys, and mature chickens. 4/ Wholesale
weighted average. 5/ Wholesale, 8- to 16-pound young hens. 6/ Cartoned, consumer Grade A large, sales to
volume buyers.

FACTORS AFFECTING LIVESTOCK AND POULTRY

Economic Conditions Favorable, But Future Cloudy

Current economic indicators suggest that the economy remains strong, and thus supportive for livestock and poultry demand. Industrial production, employment and income numbers are all at high levels. However, signs of increased inflation and interest rates are causing concern. Both the large Federal deficit and the large international trade deficit also cloud the economic future. The Gross National Product during the first quarter of 1988 was up 2.3 percent on an annual basis, consistent with projected growth of about 3 percent for all of 1988. Production costs for livestock and poultry are up slightly from a year ago. Consumer purchasing power for livestock and poultry products remains strong. Civilian unemployment for the quarter was 5.7 percent, the lowest since the second quarter of 1979. Real per capita disposable income was up 1.3 percent compared with first-quarter 1987.

Pork and Poultry Supplies Up, Beef Down

Larger supplies of red meat and poultry relative to a year ago are keeping pressure on product prices. Cash receipts from livestock and poultry marketings likely will be slightly below last year's \$86 billion. Increased returns to beef producers are being offset by lower returns to pork and poultry producers, due to lower producer prices and rising feed costs.

Record large supplies of red meat and poultry will continue to be available in 1988. First-half meat supplies are expected to increase 5 percent above a year earlier, and be up 2 percent for all of 1988. Per capita retail weight consumption of red meat and poultry is expected to be between 218 and 221 pounds, up from 1987's 215 pounds.

Poultry production is expected to increase 8 percent for the first half of 1988 and 6 percent for all of 1988, down from the large 10-percent increase in 1987. Pork production for first-half 1988 is expected to be 8 percent above 1987 while production for the year likely will increase 5-6 percent. Beef production is expected to be unchanged from

the first half and down 4 percent for the year. Lower producer prices and higher costs are expected to cause production adjustments throughout the livestock sector.

Feed Costs Increase

Expanding exports, higher domestic use, and reduced production could cause feed costs to increase slightly from year-earlier levels. Use of feed grains in 1987/88 is expected to be above 1986/87. Feed grain ending stocks of approximately 130 million metric tons may be down about 14 percent from 1986/87. Exports of U.S. feed grains are expected to increase in 1987/88 and corn prices are likely to range from \$1.65 to \$1.85 per bushel, up from the \$1.50 average of 1986/87. Expanding export demand and domestic use likely will push soybean meal prices to \$185-\$200 per ton in the 1987/88 crop year, up from \$163 a year earlier.

Prospective Plantings Indicate Lower Crop Acreage

The 1988/89 feed grain crop is likely to be down slightly from 1987/88, as indicated by producer planting intentions as of March 1. Prospective acreage for major crops is down 1 percent from a year earlier to about 200 million acres, reflecting the economic advantage of complying with the Acreage Reduction Program. There also have been more acres placed in the Conservation Reserve Program. Corn acreage intentions were up 2 percent. Intentions for other feed grains showed sorghum and oats down 9 percent and barley plantings down 7 percent. Soybean intentions were 1 percent above a year ago.

POULTRY AND EGGS

The poultry industry produced more meat and eggs in 1987 than 1986 and production continued to increase through first-quarter 1988. However, increased production brought lower meat and egg prices. Now most indicators show that production already has begun to slow or decrease. Net returns have been below breakeven for turkey producers since July 1987 (except during November and December) and since May 1987 (except during August and September) for egg producers. Broiler producers' net returns rebounded

during March and April but had been below or near breakeven since October 1987. Most longer-term production indicators, such as hatchery supply flock size and poult placements, indicate a slowing or reduction in production.

The total value of egg, other chicken, broiler, and turkey production in the 1987 marketing year was \$11.2 billion, 9.7 percent below a year earlier. Arkansas was the top value poultry producing State with output valued at \$1.47 billion. It was closely followed by Georgia and North Carolina, each with sales of \$1.1 billion. The value of other chicken was below a year ago, with sales at \$114 million for 218 million head sold.

Eggs

First Quarter Disappointing for Egg Producers

During first-quarter 1988, egg production totaled 1,463 million dozen, up 1.5 percent from a year earlier. Egg prices were more than 15 percent below the year-earlier quarter, in part because of disappointing pre-Easter market prices. Estimated net returns were -7.8 cents per dozen. Net returns have been negative in 10 of the past 12 months. Although this figure is an average and not necessarily representative of any particular operation, it indicates that the current market environment is difficult for the egg industry in general.

As of April 1, 1988, the laying flock was about 2.5 percent below a year earlier, and 1.8 percent below March. In comparison, between March and April 1987, the flock size was virtually unchanged. Price pressures are expected to force additional cutbacks in the laying flock, thus reducing future production.

Production Expected To Decline in 1988

Calendar year 1988 egg production is expected to decline about 0.5 percent, assuming a significant downsizing of the laying flock during the year. There is already some evidence of flock reductions in response to a sustained period of negative net returns to producers. The flock appears to be somewhat younger, based on earlier placements. As of April 1, 19.4 percent of the laying flock had

Table 2--Eggs and poultry: Value of production, 1980-87 1/

Year		of prod Broiler	uction s Turkeys	Value of sales Nonbroiler	Total
			1,000 dol	lars	
1980 1981 1982 1983 1984 1985 1986	3,268 3,671 3,459 3,469 4,111 3,253 3,510 / 3,177	4,303 4,699 4,502 4,873 6,018 5,680 6,780 6,176	1,272 1,248 1,255 1,269 1,655 1,819 1,952	128 132 119 147 170 152 128 114	8,971 9,750 9,335 9,758 11,954 10,969 12,369 11,168

^{1/} Data (except turkey) reported on
December-November marketing year.
2/ Preliminary.

Net Returns to Egg Producers¹

Cents per dozen 14 12 10 8 6 4 2 0 -2 -4 -6 -8 86 87 88 1985 1/ Estimated; first-quarter 1988 preliminary.

Table 3--Layers on farms and eggs produced, 1987-88 1/

Quar- ters	Number of layers			ggs Tayer	Eggs produced		
	1987	1988	1987	1988	1987	1988	
	- Mill	ions -	– Nur	mber -	Millio	n dozen	
 V Annual	282 280 277 283 280	283	61.0 63.1 62.1 61.6 247.8	62.2	1,434.6 1,472.1 1,432.7 1,451.7 5,791.0	1,466.9	

I/ Marketing year beginning December 1.

completed a molt (compared with 19.6 percent last year), while 3.9 percent were being molted (2.8 percent last year). Light-type hen slaughter has been running at a relatively high

		Force	molted lay	yers I/			Light-type hens slaughtered		
Month		Mo	It complet	ed	under Federal inspection 2/ (Number of Head)				
	1986	1987	1988	1986	1987	1988	1986	1987	1988
	7 7 7 1 to 10 10 10 10 10 10 10 10 10 10 10 10 10	-	Perc	cent	-			- Thousand	ls
January	3.6	4.2	3.8	25.2	20.9	20.9	13,890	13,004	13,587
February	4.8	4.6	5.0	23.5	19.1	20.4	12,221	13,196	13,993
March	4.2	3.8	3.8	24.4	20.1	20.6	14,201	13,451	14,466
April	2.8	2.8	3.9	24.0	19.6	19.4	14,761	14,752	
lay	5.4	5.4		22.1	18.8		13,277	12,871	
lune	4.4	6.4		22.8	18.5		14,875	13,933	
July	5.4	4.7		21.9	20.5		12,280	12,481	
\ugust	3.9	4.9		21.4	21.0		11,682	12,518	
September	3.9	5.3		20.8	21.7		11,185	10,814	
October	4.7	4.9		20.2	21.3		12,450	12,055	
November	4.2	4.2		20.7	21.4		10,019	11,410	
December	2.5	3.4		22.0	22.4		12,975	15,957	

I/ Percent of hens and pullets of laying age in 15 selected States. 2/ Revisions include data from late reports or other corrections developed by the Food Safety and Inspection Service.

Table 5--Egg-type chick hatchery operations, 1986-1988

Month		Hatch	firs	ggs in t of mo om prev	nth, c	hanges
	1986	1987	1988	1986	1987	1988
		Thousands		P	ercent	
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	34,538 34,826 38,523 42,359 42,465 37,253 33,575 33,382 32,638 32,444 27,456 33,262	34,156 35,815 41,708 42,356 40,858 37,256 33,375 34,667 31,800 33,959 30,593 31,242	29,472 28,468 34,743	13 25 11 5 8 6 10 4 2 -4 -16 -3	5 4 5 -2 1 -4 8 4 9 10 -7	-4 -24 -17 -17

rate since November, with nearly 12 percent more birds killed during this period than a year earlier.

Per Capita Consumption Expected To Decline in 1988

Per capita egg consumption changed little during 1987, but is expected to decline about 4 eggs in 1988. The annual drop is projected in spite of sharply lower prices during the first quarter, and even lower prices projected for the second quarter. The general downward

trend in egg consumption is well established, and has its roots in both demographic factors and health concerns with cholesterol. Also, there has been negative publicity linking eggs with salmonella enteritidis outbreaks in the northeastern United States over the past 2-1/2 years, the ultimate effects of which are still being assessed. The renewed salmonella concerns may have a temporary, and probably modest, impact on egg prices and consumption. The bulk of the impact may be found in a widening of the retail margin, as wholesale prices are pushed down while an attempt is made to maintain retail prices. This occurred in the broiler industry during the period of heightened salmonella concern in the spring of 1987.

A bright spot in the current egg market is found in international trade numbers. During January-February 1988, egg exports rose over 62 percent from a year earlier, as the Export Enhancement Program (EEP) continued to help U.S. producers sell abroad.

Prices May Recover During Second-Half 1988

Cutbacks in the laying flock during first—half 1988 will cause production to decline during the third and fourth quarters. The lower supplies are expected to cause prices to rise 8 to 10 cents from the second quarter to the third. Prices for grade A large eggs may average above 60 cents per dozen

			Eggs						
	Average layers	Prod	uced	***************************************					
Year	on hand during the year	Per layer on hand during year	Total	Price per dozen	Value of production				
	Thousands	Number	Millions	Cents	1,000 dollars				
980	287,705	242	69,686	56.3	3,267,563				
981 982	287,774 286,369	243 244	69,825 69,718	63.1 59.5	3,671,143 3,458,873				
983	276, 263	247	68,169	61.1	3,469,368				
984	278,022	245	68,230	72.3	4,110,920				
985	276,680	247	68,407	57.1	3,252,519				
986	276,260	247	68,398	61.6	3,510,273				
1987	280,482	248	69,492	54.9	3,177,043				

I/ Data cover both farm and commercial flocks Data reported on December-November marketing year.
2/ Preliminary.

Table 7--Egg prices and price spreads, 1986-88

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
						Cent	rs per	dozen					
Farm price 1/ 1986 1987 1988	58.3 51.5 39.7	54.0 50.0 37.6	61.4 46.0 41.2	49.2 46.5	48.8 40.1	42.1 41.2	51.9 41.8	55.3 40.9	55.4 51.3	50.3 41.4	60.0 46.9	58.3 38.8	53.8 44.7
New York (cartoned) 2/ Grade A, large 1986 1987 1988	73.3 67.1 55.9	68.3 65.2 52.7	80.8 62.0 56.4	65.7 62.4	65.2 55.6	59.2 58.7	73.0 59.1	72.8 63.2	72.6 68.3	69.6 60.2	77.2 60.5	75.5 56.9	71.1 61.6
4-region average Grade A, large Retail price 1986 1987 1988	90.1 86.2 76.0	86.6 82.3 71.8	88.7 80.0 74.0	89.0 78.6	82.0 76.3	79.5 71.1	83.3 76.3	91.3 73.0	86.8 83.7	85.5 77.8	89.7 80.5	91.0 73.1	87.0 78.3
Price spreads Retail-to-consum 1986 1987 1988	ner 14.9 17.4 20.9	17.2 14.5 18.2	10.0 16.5	21.9	16.8 20.8	20.5 12.7	12.1 16.4	18.8 15.7	14.3 13.6	15.4 18.4	11.7 18.4	14.4 15.4	15.7 16.2
Consumer price							1982-8	4 = 100					
index 1986 1987 1988	101.5 100.8 90.1	97.4 97.8 85.5	99.6 93.9	98.5 91.1	90.7 88.5	87.1 84.1	91.4 87.8	100.7 85.8	97.1 97.6	97.2 91.4	102.2	103.7 85.5	97.3 91.5

^{1/} Market (table) eggs including eggs sold retail by the producer; data not available prior to 1982.
2/ Price to volume buyers.

this summer. Although this price is at or below estimated breakeven, it would represent substantial improvement over the difficult first and second quarters of the year. Fourth—quarter prices are expected to show additional strength, averaging 63-69 cents per dozen, above the estimated cost of production.

The USDA's Agricultural Marketing Service is purchasing frozen whole eggs and dried egg mix for the school lunch and other domestic programs for the first time in nearly 30 years. These purchases are expected to provide modest support for egg prices.

Production, Disposition, and Value

The number of eggs produced during the 1986/87 marketing year (December/November), at 5.79 billion dozen, increased 1.6 percent from the previous year. The value of production, at \$3.18 billion, was 9.5 percent below the previous year, an indication that prices fell more than production increased.

California produced the most eggs in 1987 with 669 million dozen, which were valued at \$308 million. California was followed by Indiana with 479 million dozen valued at \$240 million; and Pennsylvania with 404 million dozen valued at \$174 million. Georgia egg production, at 373 million dozen, was fourth highest in the country, while the value of this production, at \$255 million, was the second highest in the country.

Table 8--Shell eggs broken and egg products produced under Federal inspection, 1987-88

	Shell	Egg produ	cts produ	ced I/
Period	eggs broken	Liquid 2/	Frozen	Dried
	Thou. doz.	Thou.	Thou.	Thou.
1987				
January February March April May June July August September October November December	73,724 71,122 80,467 74,135 77,451 85,391 86,461 79,928 78,419 81,959 73,557 79,469	23,567 22,371 26,343 23,231 23,121 27,478 23,730 25,061 27,371 28,644 22,542 21,367	29,042 27,250 31,909 27,750 28,307 27,781 30,972 27,454 28,455 34,433 29,511 34,530	8,981 8,159 8,725 8,428 9,242 9,788 9,622 8,356 7,157 8,504 8,037 9,337
JanMar.	225,313	72,281	88,201	25,892
1988				
Janaury February March April May June July August September October November December	74,629 75,240 81,978	24,055 24,470 27,153	26,050 26,412 28,412	8,973 8,649 7,712
Jan-Mar.	231,847	75,678	80,874	25,334
JanMar. Pct. Chg. Yr-on-Yr	+2.9	+4.7	-8.3	-2.2

I/ Includes ingredients added. 2/ Liquid egg products produced for immediate consumption.

Year	Pro- Beg duction st	jinning rocks	Breaking egg use	Imports 2/	Total supply	Exports	Ship- ments	Hatching egg use 3/	Ending stocks	<u>Consur</u> Total	nption Per capita
Total Eggs 1986					Million	dozen					
1966 	1,420.6 1,417.8 1,410.5 1,456.1 5,704.9	10.7 8.7 11.9 11.5 10.7		3.6 4.0 2.2 3.9 13.7	1,434.9 1,430.5 1,424.6 1,471.4 5,729.3	26.0 22.4 29.0 24.2 101.6	7.5 5.8 7.5 7.2 28.0	139.2 145.1 141.4 141.2 566.8	8.7 11.9 11.5 10.4 10.4	1,253.6 1,245.4 1,235.2 1,288.4 5,022.5	62.5 62.0 61.3 63.8 249.5
	1,440.4 1,438.4 1,438.5 1,479.2 5,796.5	10.4 11.9 13.8 13.5 10.4		2.6 1.2 1.0 0.8 5.6	1,453.4 1,451.6 1,453.3 1,493.4 5,812.5	23.6 23.7 21.5 42.4 111.2	7.3 4.8 6.1 6.9 25.1	147.6 153.7 147.8 146.4 595.5	11.9 13.8 13.5 14.4 14.4	1,263.0 1,255.6 1,264.3 1,283.3 5,066.2	62.4 61.9 62.2 63.0 249.4
 V	1,462.6	14.4						150.2	12.9		
Shell Eggs 1986 	1,420.6 1,417.8 1,410.5 1,456.1 5,704.9	0.7 0.6 1.1 0.9 0.7	187.8 227.0 225.1 217.6 857.4	3.0 3.3 1.2 3.4	1,236.5 1,194.7 1,187.7 1,242.7 4,859.2	5.7 6.9 6.4 6.9 25.9	7.3 5.5 7.1 6.9 26.8	139.2 145.1 141.4 141.2 566.8	0.6 . 0.9 0.7 0.7	1,083.8 1,036.1 1,032.0 1,087.0 4,238.9	54.0 51.5 51.2 53.8 210.6
	1,440.4 1,438.4 1,438.5 1,479.2 5,796.5	0.7 1.0 1.0 1.0	225.3 237.0 242.8 235.0 940.1	1.9 0.1 0.1 0.1 2.3	1,217.7 1,202.5 1,196.8 1,245.3 4,859.4	7.1 8.9 8.3 24.3 48.6	7.0 4.8 6.0 5.9 23.7	147.6 153.7 147.8 146.4 595.5	1.0 1.0 1.0 1.3	1,055.1 1,034.2 1,033.7 1,067.4 4,190.3	52.1 51.0 50.9 52.4 206.3
 	1,462.6	1.3						150.2	2.0		

I/ Totals may not add due to rounding. 2/ Shell eggs and approximate shell-egg equivalent of egg products. 3/
Hatching for 1986-present calculated by the new method. 4/ Preliminary.
--- Not applicable for total egg supply and utilization.

Broilers

Broiler Prices Same as Year Earlier Despite Higher Production

Broiler prices (12-city wholesale composite) have shown some strength during March and April, at 48-49 cents per pound, and are averaging nearly the same as a year earlier. During this period, production was likely 7 percent higher. Broiler prices may have been boosted by higher beef prices in recent months. Broiler prices may continue in the upper 40 cents through the summer if producers slow production as expected.

Broiler Production To Increase In 1988

Broiler production is expected to be about 5 percent higher in 1988 than 1987. Most of the increase will come during the first half, with the smallest increase in the fourth quarter. First-quarter production was 7 percent higher than a year earlier. The broiler chick hatch during February and March was 6 percent above a year earlier. Weekly broiler chick placements during April increased 3 percent from a year earlier. Liveweights of birds slaughtered increased more than 1 percent in 1987 from 1986 and showed a

Table 10--Broilers: Production and value, 1980-87 1/

	Produ	iced	Price per	Value of	
Year			pound	sales	
	~ - Thous	sands	Cents	l,000 dollars	
1980 1981 1982 1983 1984 1985 1986 1987 2	3,963,211 4,147,521 4,148,970 4,183,660 4,282,391 4,478,749 4,646,312 / 5,002,934	15,538,573 16,519,568 16,759,860 17,037,998 17,862,944 18,850,790 19,651,075 21,520,242	27.7 28.4 26.9 28.6 33.7 30.1 34.5 28.7	4,302,818 4,699,379 4,502,214 4,872,707 6,017,504 5,680,188 6,780,124 6,175,721	

1/ Data reported on December-November marketing year. 2/ Preliminary.

similar increase during first-quarter 1988. Hatch, placements, and increased slaughter weights indicate second-quarter production will be about 7 percent higher than a year ago.

Hatching Egg Flock Decreasing

The size of the hatching egg flock has decreased in recent months due to a significant increase in the slaughter of spent heavy-type hens. The number slaughtered increased 12 percent during fourth-quarter 1987 and 18 percent during first-quarter 1988 from the previous year. The hatching-egg flock, containing predominantly broiler hatching-egg type hens, generally shows the egg laying capacity to produce broilers about 2.5 months from the time of the flock size estimate. On September 1, 1987, and January 1, 1988, the hatching-egg flock was nearly 6 percent greater than the same dates a year earlier. By April 1, the hatching-egg flock was 2 percent larger than a year earlier. Because the hatching-egg flock contains table egg-type hens, it can only be used as a rough estimate of broiler egg production during the next month. Consequently, third-quarter broiler production is expected to be about 5 percent greater than a year ago.

October Hatchery Supply Flock Same as a Year Ago

The estimated broiler hatchery supply flock is a much longer term indicator of production than the hatching-egg flock. The supply flock is estimated by summing broiler pullet placements 7–14 months earlier.

Table II--Nonbroiler chickens: Production and value of sales, 1980-87 1/

-	Sal	es	Price per	Value of	
Year	Number	Pounds	pound`	sales	
	1,000 head	Thousands	Cents	1,000 dollars	
1980 1981 1982 1983 1984 1985 1986	238,495 238,576 242,027 236,710 224,664 220,395 216,338 2/ 218,212	1,167,017 1,187,255 1,158,703 1,158,551 1,067,729 1,029,146 1,019,446 1,037,512	11.0 11.1 10.3 12.7 15.9 14.8 12.5	128,268 132,271 118,915 147,454 169,732 152,175 127,572 113,828	

I/ Data reported on December-November marketing
year. 2/ Preliminary.

Therefore, summing placements between February 1987 and March 1988 gives an estimate of the broiler hatching-egg flock for October 1988. The estimated hatchery supply flock for August through October is about the same as a year ago, indicating intentions by broiler producers to continue reducing the rate of increase in broiler slaughter numbers.

Per Capita Consumption To Increase in 1988

The estimates of broiler production, adjusted for expected exports, shipments, and stock levels, show that per capita broiler consumption will continue to rise to about 62–63 pounds in 1988 from 60.1 pounds in 1987, a 4-percent increase. This is nearly 29 percent of total red meat and poultry consumption. The increased per capita supplies of chicken will slacken in the last half of the year, but increased supplies of turkey meat and pork will pressure prices through the rest of 1988. However, strong retail beef prices will be supportive of broiler prices.

Prices Move Up But Below a Year Ago

The 12-city wholesale composite broiler price during first-quarter 1988 was 45 cents per pound, substantially below the 50 cents recorded a year earlier. The quarterly average included a fairly strong 48 cents received during March 1988. Prices during the second quarter are expected to increase slightly from the first quarter and average 46-50 cents. This is similar to second-quarter 1987. Broiler prices are expected to average

Table 12-Broilers: Eggs set and chicks placed weekly in 12 commercial States, 1987-88 1/

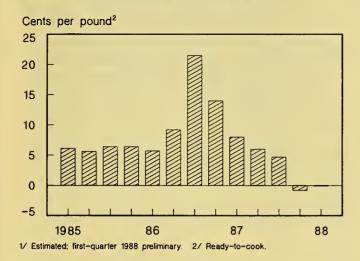
Period 2/		Eggs set			Chicks place	d
Month and day 2/	1987	1988	Percent of previous year	1987	1988	Percent of previous year
	Thou	sands – – –	Percent	Thous	ands	Percent
January						
2	112,039	116,091	104	87,223	90,561	104
9	112,316	115,934	103	86,693	92,890	107
16	112,714	114,423	102	85,982	91,299	106
23	112,568	112,593	100	87,241	91,008	104
30	112,751	113,043	100	86,863	92,173	106
ebruary						
6	111,601	116,587	104	86,790	90,937	105
13	111,696	117,406	105	87,378	88,801	102
20	114,994	118,448	103	87,558	87,987	100
27	116,326	119,719	103	87,117	91,987	106
March						
5	115,758	118,971	103	86,947	92,616	107
12	115,980	118,964	103	89,084	93,955	105
19	115,239	118,707	103	90,547	94,901	105
26	117,959	117,130	99	90,034	94,582	105
April						
2	118,697	119,577	101	90,643	94,251	104
9	119,414	117,897	99	89,105	95,041	107
16	118,184	118,965	ΙÓÍ	91,486	92,700	101
23	117,771	118,370	101	93,251	94,684	102
30	117,283	110,570	101	93,049	24,004	102

^{1/ 12} States: Ala., Ark., Calif., Del., Fla., Ga., Md., Miss., N.C., Pa., Tex., and Va. 2/ Weeks in 1988 and corresponding weeks in 1987.

Table 13--Broiler chicks hatched and pullet chicks placed in hatchery supply flocks, 1986-88

	Broiler-type chicks				Pullet chicks placed in broiler hatchery supply flocks							
 Month				Monthly placements				lative place 14 months ea				
	1986	1987	1988	1986	1987	1988	1986	1987	1988			
				Th	ousands							
January February March April May June July August September October November December	409,336 376,092 432,871 424,078 438,623 428,691 429,883 415,991 401,676 416,193 402,582 437,287	439,442 405,252 456,081 455,679 473,827 461,421 463,321 455,676 433,769 441,893 423,147 469,720	464,527 431,724 482,769	3,395 3,420 3,675 4,062 3,938 3,515 3,672 3,846 3,594 3,846 3,769 4,423	4,077 3,699 4,111 4,713 4,055 4,181 3,995 3,974 3,457 4,126 3,763 4,117	3,389 4,038 4,123	27,483 27,940 27,374 27,156 27,321 27,002 26,868 26,591 26,849 27,124 28,021 28,706	29,039 29,427 29,523 29,722 30,148 30,242 30,603 30,742 30,926 31,365 32,232 32,693	33,028 33,254 32,805 32,185 32,612 32,264 31,668 31,002 30,859 30,987			

Net Returns to Broiler Producers¹



44-50 cents in the third quarter because of increased seasonal summer demand. Fourth-quarter prices are expected to fall to 40-46 cents per pound, similar to last year.

Net Returns To Be Squeezed in 1988

Broiler net returns during the rest of 1988 are not expected to widen from the 3 cents estimated for March and April. With corn and soymeal prices forecast to be above a year earlier during the second and third quarters, net returns will continue to be squeezed for much of the rest of the year. Net returns on average during first-quarter 1988 were a negative 0.1 cents per pound.

Cold Storage Stocks of All Chicken Increase

With increased production, total chicken stocks reached a record 231 million pounds on April 1, 17 percent above a year ago. Other chicken accounted for 77 percent of the total. The other chicken category includes any chicken stored that can't be identified as broiler or mature chicken. Because cutup broiler production outweighs cutup mature chicken and because most processing methods preclude freezing mature chicken parts, other chicken stocks are presumed to contain predominantly cutup broilers. Whole broilers accounted for 15 percent and hens for the remaining 7 percent of the total chicken stocks. The proportions were 84 percent for parts, 13 for whole broilers, and 3 percent for whole hens on April 1, 1987. The increase in the proportion of stocks of whole hens is

	Produ cos		Wholesa	le	Net
Year	Feed	Total	Total costs 2/	Price 3/	returns
Market eggs (cts/doz)					
1987 	21.8 23.1 23.9 24.5 23.3	40.0 41.3 42.1 42.7 41.5	60.5 61.8 62.6 63.2 62.0	66.4 58.9 64.1 59.7 62.3	5.9 -2.9 1.5 -3.5 0.2
1988 5/ 1 1 V Year	26.1	44.3	64.8	57.1	-7.8
Broilers (cts/lb)					
1987 	12.7 12.8 14.3 13.7 13.4	20.7 20.8 22.3 21.7 21.4	42.0 42.1 44.1 43.4 42.9	50.0 48.1 48.8 42.5 47.4	8.0 6.0 4.7 -0.8 4.4
1988 5/ 	15.4	23.4	45.6	45.5	-0.1
Turkeys (cts/lb)					
1987 	18.4 18.2 20.4 19.8 19.4	32.1 31.9 34.1 33.5 33.1	56.5 56.1 58.9 58.2 57.6	57.0 58.7 55.0 57.6 57.0	0.5 2.6 -4.0 -0.8 -0.7
1988 5/ 	21.9	35.6	60.8	49.2	-11.6

I/ Costs and prices are weighted by monthly production. 2/ Based on farm cost converted to wholesale market value. 3/ Wholesale prices used are the I2-metro area egg price, I2-city weighted average broiler price, and a weighted average of 8-16 lb. young hens and I4-22 lb. toms in Central, Western, and Eastern Regions. 4/ Weighted average. 5/ Preliminary.

probably due to the large slaughter of spent hens in both the broiler and egg industries as producers scaled back egg production capacity.

Production, Disposition, and Value

The number of broilers raised during the 1987 marketing year, at 5.00 billion birds, increased 8 percent from the previous year, a new record. The value of production, at \$6.18 billion, was 9 percent below the previous year, an indication that prices fell more than production increased.

Arkansas produced the most broilers in 1987 with 879 million birds valued at \$1,107 million. Arkansas was followed by Georgia with 733 million birds valued at \$836 million; and Alabama with 667 million valued at \$738 million.

Table 15--Federally inspected young chicken slaughter, 1987-88

Year	Number	Average weight	Live- weight	Certi- fied RTC
	Millions	Pounds	- Millio	n Pounds -
1987 	1,188 1,253 1,301 1,229 4,971	4.33 4.29 4.20 4.35 4.29	5,149 5,369 5,470 5,349 21,333	3,735 3,910 3,966 3,891 15,498
1988 	1,263	4.35	5,493	3,984

Table 16--Young chicken prices and price spreads, 1986-88

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
5						Cen	ts per	pound					
Farm price 1/ 1986 1987 1988	30.6 31.1 27.1	29.2 30.1 25.7	29.7 29.1 27.5	29.5 29.6	32.2 30.0	35.4 27.6	42.7 28.1	43.9 31.6	36.5 28.5	39.3 25.2	34.9 26.4	30.6 24.6	34.5 28.5
Wholesale RTC 12-city avg. 2/ 1986 1987 1988	51.7 51.8 43.9	49.0 49.8 44.4	50.3 48.5 48.1	50.0 48.6	54.6 50.5	58.3 45.5	69.1 47.0	69.7 52.6	61.0 46.4	61.6 43.2	57.5 44.6	50.0 39.8	56.9 47.4
U.S. avg. retail price 1986 1987 1988	76.6 82.1 74.0	77.1 83.2 74.5	76.7 80.4 75.3	75.2 79.2	76.9 78.2	79.5 77.1	88.9 75.5	95.8 78.5	91.0 79.3	90.0 79.1	87.8 75.6	86.5 73.6	83.5 78.5
Price spreads Retail-to-cons. 1986 1987 1988	19.5 24.3 24.1	21.8 26.8 24.4	21.0 25.2	19.2 25.3	16.3 21.2	15.5 25.3	16.4 21.2	20.0 20.2	21.6 33.1	20.5 30.2	22.6 25.2	30.0 26.1	20.4 25.3
							1982–84	= 100					
Retail pr. inde: Wh. chickens 1986 1987 1988	105.0 119.5 107.9	105.6 118.7 109.5	106.0 115.2	103.9 113.1	106.1 112.9	109.8	121.9	132.3 113.9	125.5 114.6	124.9	123.0 109.2	121.0 107.7	115.4

^{1/} Live weight. 2/ 12-city composite weighted average.

Turkeys

Turkey Production May Be Slowing

Although first-quarter production was likely 25 percent higher than a year earlier, poult placements for slaughter indicate second-quarter production will be 13 percent greater. Poult placements decreased 1 percent from a year earlier in the March estimate and total cumulative poult placements from September 1987 through March 1988 were 10 percent ahead of a year earlier. Eggs in incubators on April 1 were down 2 percent from a year earlier. Turkey production is estimated to be up 9 percent in 1988.

Turkey Cold Storage Stocks Up

Turkey stocks on April 1 were extremely heavy, at 353 million pounds on April 1 or 56 percent higher than a year earlier. Whole turkey stocks increased 48 percent while parts stocks increased 74 percent. Beginning fourth-quarter stocks are expected to be approximately 630 million pounds, 2 percent less than 1987's record levels as production slows. Turkey prices may not rise above breakeven because of the anticipated large turkey stocks as well as large total meat supplies being forecast for the fourth quarter and because of seasonal competition from pork.

Net Returns Negative

Except for November and December, net returns have been negative since third-quarter 1987. During first-quarter 1988, net returns were estimated at a negative 12 cents per pound. With expected increases in feed prices through the third quarter and with wholesale turkey prices rising to only 54–60 cents per pound in the fourth quarter, net returns probably will remain negative for most of the year.

First-Quarter Prices Flat

Wholesale turkey prices have remained flat during first-quarter 1988. After falling from 68 cents per pound in December, Eastern region hen turkey prices have remained near 47 cents since the last week in January. First-quarter prices, at 49 cents, did not show any Easter rise and were well below the first-quarter 1987 price of 58 cents.

Table 17--Turkeys: Production and value, 1980-87

Year	Number raised	Pounds produced	Price per pound	Value of sales
	Tho	usands – –	Cents	l,000 dollars
1980 1981 1982 1983 1984 1985 1986	165,243 170,875 165,464 170,723 171,296 185,352 207,216	3,076,858 3,264,463 3,175,060 3,335,519 3,385,721 3,702,194 4,141,697 4,888,216	41.3 38.2 39.5 38.0 48.9 49.1 47.1 34.8	1,271,637 1,247,803 1,254,700 1,269,051 1,655,256 1,818,626 1,951,516 1,701,137

1/ Preliminary.

Second-quarter prices are expected to average near 48 cents. Some strength is expected, as buying begins in the third quarter to fill holiday needs during the fourth quarter. Prices are likely to move up from the second quarter and average 52–58 cents. Prices during 1988 are expected to average 49–55 cents, substantially under the 58 cents received in 1987.

Per Capita Consumption Continues To Increase

Per capita consumption of turkey is expected to rise to 17 pounds in 1988, a 12-percent increase from 1987. The largest increases are expected to occur during the first three quarters, with rises of 20, 23, and 12 percent, respectively. Fourth-quarter per capita consumption is expected to increase less than 4 percent, to 6.2 pounds. This continues the pattern of higher percentage increases in the first three quarters of the year vis-a-vis the fourth quarter.

Production, Disposition, and Value

The number of turkeys produced in calendar year 1987, at 240 million birds, increased 16 percent from 1986. Value fell to \$1.70 billion, 13 percent below a year earlier. North Carolina continued to produce the most turkeys, at 48.4 million, 24 percent above a year earlier. Production in North Carolina was valued at \$312 million, 9 percent below a year earlier.

The second largest producing state was Minnesota, with 40.5 million birds valued at \$228 million, followed by California with 25.5 million birds valued at \$180 million.

	Commercial	brollers pro	oduced 1/ 2/	Turkeys	raised, all bree	eds 6/ 3/
State and region	1985	1986	1987	1985	1986	1987
				Thous	ands	
Maine New Hampshire	4/	4/	4/	28	26	26
Vermont Massachusetts Rhode Island				156	145	140
Connecticut New York	1,750	2,000	2,100	35 314	40 343	30 437
New Jersey Pennsylvania North Atlantic	94,696 96,446	101,907 103,907	115,635 117,735	88 7,100 7,721	100 7,800 8,454	8,000 8,748
Ohio Indiana	9,000 4/	9,900 4/	11,000 4/	2,800 6,941	3,100 9,370	3,400 13,000
Illinois Michigan Wisconsin East North Central	1,300 11,200 21,500	600 11,600 22,100	675 13,200 24,875	280 2,300 6,150 18,471	347 2,700 6,128 21,645	698 3,000 5,450 25,548
Minnesota lowa Missouri North Dakota South Dakota	26,900 2,000	29,700 2,700	31,700 2,600	30,400 6,300 12,500 900 1,723	34,200 7,000 13,500 1,000 1,968	40,500 8,500 15,500 1,200 2,376
Nebraska Kansas West North Central	885 29,785	832 33,232	1,074 35,374	918 200 52,941	1,437 104 59,209	1,942 193 70,211
Delaware Maryland Virginia West Virginia North Carolina South Carolina Georgia Florida South Atlantic	196,399 272,429 154,096 25,689 447,300 60,367 677,224 104,207	196,783 263,885 154,156 29,010 450,500 63,801 697,364 111,884	209,818 264,196 154,036 32,770 477,700 68,051 733,417 116,980 2,056,968	11 129 13,066 2,400 31,850 2,850 2,631	7/ 125 14,307 2,220 39,100 3,900 2,426 62,078	7/ 133 16,200 2,400 48,350 3,950 2,432 73,465
Kentucky Tennessee Alabama Mississippi Arkansas Louislana Dklahoma Texas South Central	3,176 4/ 561,757 328,732 759,963 4/ 61,730 215,900 1,931,258	3,012 82,500 587,563 335,704 786,779 4/ 79,500 238,600 2,113,658	2,894 92,500 666,538 343,395 878,574 4/ 90,600 259,000 2,333,501	16,000 4/ 4/ 16,000	16,500 4/ 4/ 16,500	18,000 4/ 4/ 18,000
Montana Idaho Wyoming Colorado New Mexico				4/	4/	4/
Arizona Utah				3,082	3,390	3,731
Nevada Washington Oregon California West	23,000 14,400 174,338 211,738	25,100 15,800 184,832 225,732	26,200 17,000 196,120 239,320	1,300 20,500 24,882	1,540 21,900 26,830	1,830 25,500 31,061
Alaska Hawaii	2,359	2,288	2,311			
Other States 4/	247,952	178,012	192,850	12,400	12,500	13,316
48 States	4,476,390	4,644,024	5,000,623	185,352	207,216	240,349
United States 5/	4,478,749	4,646,312	5,002,934	185,352	207,216	240,349

^{1/} Includes production of other meat-type breeds. 2/ December I through November 30 marketing year. 3/ Calendar year. 4/ Combined to avoid disclosing individual operations. 5/ Excludes States producing less than 500,000 birds and includes broilers destroyed due the outbreak of avian influenza in 1983. 6/ Does not include young turkeys lost; based on turkeys hatched September I of previous year through August 31, of the current year. 7/ Maryland and Delaware combined.

Table 19--Turkey hatchery operations, 1985-88 1/

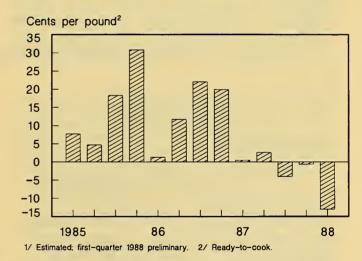
Month		otal placed 2/	Eggs in incubators first of month, changes from previous year						
	1985–86	1986-87 3/	1987-88	1985-86	1986–87	1987-88			
	– – Thous	sands		Perc	cent				
Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug.	10,661 12,451 12,648 14,448 17,204 18,608 20,761 23,065 24,337 23,394 22,310 16,405	13,620 14,135 13,836 17,705 21,646 21,265 25,401 26,703 26,623 27,265 25,999 19,889	15,024 16,743 17,714 19,956 22,307 23,059 25,043	+20 +8 +13 +17 +8 +13 +8 +10 +9 +10 +13 +8	+18 +17 +11 +18 +27 +14 +19 +17 +16 +15	+16 +18 +21 +15 +9 +8 +3 -2			

^{1/} Breakdown by breed not shown to avoid disclosing individual operations. 2/ Excludes exported poults. 3/ Includes revised calendar year 1987 numbers.

Table 20--Federally inspected turkey slaughter, 1987-88

Year	Number	Average weight	Live- weight	Certi- fied RTC
	Millions	Pounds	- Million	Pounds -
1987				
1	40.9	20.67	846.7	670.1
H	55.5	19.70	1,093.2	866.8
111	69.9	19.88	1,389.4	1,099.0
IV	64.7	21.07	1,364.1	1,080.9
Year	231.0	20.33	4,691.1	3,714.9
1988				
 V Year	50.2	21.0	1,052.5	835.4

Net Returns to Turkey Producers¹



Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
						Cen	ts per	pound					
Farm price 1/ 1986 1987 1988	35.6 34.9 31.8	36.3 35.3 29.0	36.9 37.6 28.2	38.1 36.5	40.9 35.0	45.9 34.5	49.3 33.1	50.9 31.4	51.4 30.8	53.0 29.9	51.5 33.7	43.0 38.1	44.4 34.2
New York, hens 8-16 lbs 2/ 1986 1987 1988	60.3 55.3 52.8	61.7 58.5 47.1	63.9 60.3 47.0	64.6 58.3	67.1 55.3	73.8 55.7	77.9 56.3	80.5 56.1	81.2 56.1	83.2 54.7	80.7 60.7	71.1 66.5	72.2 57.8
4-region average retail price 1986 1987 1988	106.3 103.6 93.1	107.8 103.2 92.9	104.8 103.0 91.0	104.2	103.4	102.3 105.1	105.6 105.8	109.5 105.1	111.9	112.9	108.1 90.0	102.1 89.3	106.6 101.2
Price spreads Retail-to-consume 1986 1987 1988	33.7 39.8 26.8	36.7 37.4 35.0	32.5 35.4	31.3 33.4	27.l 37.3	19.0 40.1	19.3 41.1	19.5 41.8	21.7 39.0	20.2 38.3	16.2 22.0	21.8 13.5	24.9 34.9
						198	2-84 =	100					
Consumer pr. inde 1986 1987 1988	ex 3/ .6 3.3 07.7	112.5 111.6 107.2	111.1	109.7 109.6	110.5 111.6	109.8	110.9 112.1	.7 .6	114.5	117.1 109.2	113.9 103.5	112.3	112.1

^{1/} Live weight. 2/ Wholesale, ready-to-cook. 3/ Other poultry CPI.

U.S. Poultry Trade

Broiler Exports Up

Exports during January-February 1988 were up 15 percent from the same period in 1987 and represented 4.2 percent of U.S. production compared with 3.8 percent during 1987. February 1988 broiler exports were 48.3 million pounds, up 14 percent from a year earlier.

Average export unit values, at just over 44 cents per pound in February, didn't change much from January, but were down 13 percent from February 1987. Sales value in February of \$21.4 million was down 1 percent from a year ago. Whole, young chicken exports in February were down 50 percent to 4.7 million pounds. Their average export unit value was down 9 percent to 53 cents per pound. For cutup chicken, mostly dark meat, the unit value was down 12 percent to 43 cents and export volume was up 32 percent over February 1987, to 43.65 million pounds.

Table 22--U.S. Broiler Exports to Major Importers, January-February, 1987-1988

Country or area	1987	1988
	1000	<u>Ib</u>
Japan	20,834	26,377
Hong Kong	11,282	15,147
Singapore	9,497	10,133
Egyp†	17,234	10,079
Iraq	0	7,693
Jamaica	7,222	7,659
Canada	6,819	5,518
Mexico	3,532	5,076
Netherlands Antilles	2,116	1,974
Spain	1,149	1,865
French Polynesia	0	1,686
Dominican Republic	1,011	1,493
St. Lucia	0	1,107
Antigua	0	940
Aruba	0	867
Bahamas	290	691
Montserat	0	575
Bermuda	510	548
Trindad	87	462
Taiwan	_0	460
Saudi Arabia	938	428
Other Other	9,175	4,664
Grand Total	91,696	105,442

Exports to each of the leading importers except Egypt and Canada were up. In Egypt and Iraq, broiler imports are expected to be lower during 1988 as domestic supplies have increased and the Governments have been pressured to protect domestic prices. In Canada, stocks were very large at the beginning of 1988. Exports during January–February increased to the Caribbean countries, by 20 percent compared to last year, and totaled about 18 million pounds.

Broiler exports under the Export Enhancement Program (EEP) during January-February 1988, estimated at just below 20 million pounds, represented about 18 percent of the total. Egypt and Iraq remained the major EEP markets, but EEP sales were also part of U.S. broiler exports to the Dominican Republic, Spain's Canary Islands, the Persian Gulf countries of Bahrain, Kuwait, Oman, and the United Arab Emirates, as well as Singapore.

Exports to the major East Asian countries of Japan, Hong Kong, and Singapore continue strong, with a favorable outlook.

Taiwan, an increasingly important broiler market, took 460,000 pounds compared to none last year. But the Taiwan Government faces pressure from domestic producers to slash chicken meat imports because of falling domestic prices. It is reported that while imports of chicken parts and ground chicken meat will not be permitted, imports of whole chicken will be allowed.

Sales to EC countries were very small except for increases to Spain's Canary Islands and to the U.K. A number of U.S. plants have been approved to export to the U.K.

Sales to Mexico are running ahead of last year as demand is strong, but in mid-March the Government ordered that import permits for poultry meat be stopped, because it determined there was sufficient domestic supply. Mexico's trade policy on poultry meat changes often. In December, Mexico cut the import tariff on poultry meat from 10 percent to 5 percent. Imports from the United States increased and prices fell. Producers asked the Government to reduce imports. Larger producers froze their output in order to stabilize prices.

Table 23--U.S. Turkey Exports to Major Importers, January-February, 1987-1988

Country or area	1987	1988			
	1000 1Ь				
Taiwan	5	2,113			
Egypt	344	2,048			
Federal Rep. of Germany	488	1,426			
Canada	1,442	649			
French Polynesia	0	419			
Japan	89	401			
Hong Kong	63	327			
Togo	151	264			
Jamaica	78	257			
Western Samoa	196	243			
Mexico	142	227			
Marshall Islands	145	161			
South Africa	0	125			
Haiti	199	124			
Micronesia	53	103			
0ther	422	514			
Grand Total	3,817	9,401			

Mature chicken exports hit a high 3.3 million pounds in February, up 166 percent from a year earlier, and the highest February sales since 1981. Large increases to the Far East, particularly Japan, have accounted for about 60 percent of the sales to date.

Mature chicken exports may strengthen in 1988, with the announcement on April 18 of a new initiative under the EEP to sell 11 million pounds of frozen poultry to West African countries. Sales have not yet been made under an initiative of November 30, 1987, to sell 15.4 million pounds to Zaire.

Turkey Exports Continue at a High Rate

U.S. turkey exports continued strong in February, totaling 5 million pounds, up from 4.4 million pounds in January, and up 205 percent from 1.6 million in February 1987. U.S. wholesale prices of turkey, down to about 49 cents per pound during first—quarter 1988, the lowest price in years, plus the relatively low exchange value of the dollar, are contributing to the export gains.

Almost every importing country is taking more U.S. turkey this year. Whole and cutup turkey exports both rose 205 percent in February, with cutup turkey maintaining nearly 85 percent of all turkey exports. During January-February 1988, exports rose to

Country or area	1987	1988
	1000	Ib
Japan Sinapore Hong Kong Egypt Canada Dominican Republic Netherlands Jamaica Kuwait Netherlands Antilles Mexico Micronesia Taiwan China Other	76 0 0 0 1,104 0 71 0 0 139 788 8 0 0	2,101 441 355 307 296 282 200 167 105 89 88 73 51 34
Grand Total	2,388	4,747

1.9 percent of production, compared with 0.9 percent during the same period in 1987.

Imports by Taiwan exceeded 1.1 million pounds in February, slightly above the 1 million pounds taken by West Germany, last year's leading importer. But resistance has developed in Taiwan, and U.S. turkey imports have been temporarily banned.

Export unit values reversed themselves in February, rising from only 35 cents a pound in January to 42 cents, still much lower than the 54 cents of February 1987. Cutup turkey export prices fell 16 percent to 41 cents per pound, while whole turkey prices fell 63 percent to 49 cents. Average export unit values varied sharply by country—from about 30 cents per pound to Egypt and Taiwan, to 50 cents to West Germany and Japan, and 67 cents to Canada. The lower exchange value of the dollar in most countries made local prices even lower in early 1988 compared to early 1987.

Egg Exports Climb

Total egg exports were strong in February 1988, with 15.5 million dozen exported, double those of January 1988 and February 1987, and the highest February total since 1981. During January-February 1988, exports reached 2.4 percent of production, up from 1.5 percent a year earlier. Sales of egg products to Japan

Country or Area	1987	1988
	1000	dozens
Japan	8,503	8,557
Iraq	0	4,790
Hong Kong	1,157	2,127
Canada	2,132	1,870
United Arab Emirates	0	1,103
South Korea	36	694
Mexico	150	677
Switzerland	173	451
Jamaica	219	400
Federal Rep. of Germany	175	280
Dominican Republic	323	262
United Kingdom	49	228
Trindad-Tobago	316	193
Bermuda	17	161
Venezuela	32	130
Oman	0	121
Haiti	243	120
Suriname	110	109
0ther	749	973
Grand Total	14,384	23,246

I/ Shell, and shell equivalent of egg products.

and South Korea were equivalent to nearly 6 million dozen and 0.6 million dozen, respectively. Iraq imported about 5 million dozen, mostly table eggs under the Export Enhancement Program (EEP), but also nearly 0.5 million dozen of hatching eggs under a U.S. export credit.

Canada was the top importer of hatching eggs, with 0.6 million dozen. The leading table egg importers: Iraq, Hong Kong, and the United Arab Emirates, all participants in the EEP, accounted for 94 percent of the 5.8 million dozen of U.S. table eggs exported in February. However, not all the eggs to these countries were exported under the EEP. For all of 1987 EEP accounted for about 60 percent U.S. table egg exports. In February 1988, the average export unit value for table eggs was down 24 percent from last year to 54 cents per dozen, as wholesale Grade A large egg prices in the United States dropped to 53 cents.

Targets for future EEP egg sales were raised to 15.1 million dozen in April. On April 15, a USDA announcement called for sales of an additional 5 million dozen table eggs to any of the Near East countries of Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, or the Yemen Arab Republic. On April 22, a call was

announced for sales of an additional 8 million dozen to Iraq. Competition with the EC for egg markets continues. On March 21 the EC increased export refunds on table eggs by 6.7 percent, to 32 European Currency Units (ECU) per 100 kilograms. Based on European egg weights of 141 dozen eggs per 100 kgs and \$1.235 per ECU, this export subsidy is equivalent to 28 U.S. cents per dozen. Egg products are also subsidized by the EC, but rates were not increased in March. Given the dollar's decline of about 6 percent relative to the ECU from early April 1987 to April 1988, a subsidy of 32 ECU's last year would have been equivalent to about 26 cents per dozen.

Egg Imports at a Low Rate

Imports of all eggs remained low during January-February, at 622,000 dozen. Around 81 percent came from Canada, 94 percent of these in the form of egg products. Imports of egg products were, however, up 35 percent from last year during January-February, at 560,000 dozen equivalent, with 85 percent coming from Canada.

Shell egg imports in February of only 21,000 dozen were the lowest since February 1976. Nearly all were hatching eggs, with two-thirds coming from Canada.

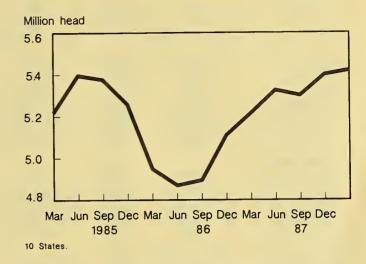
HOGS

Returns Remain Positive, Expansion Modest

Hog inventories continue to increase slowly, stimulated by 2 years of consistently favorable returns. Since June 1986, when the expansion began, the number of hogs kept for breeding in the 10 quarterly reporting States has risen 11 percent, to 5.42 million head as of March 1, 1988. The buildup has been slow by historical standards, possibly restrained by reduced availability of capital, a more concentrated industry structure, and a cautious attitude among pork producers.

Compared with a year earlier, the March 1 breeding herd was up 4 percent. The 10-State inventory of all hogs and pigs, at 40.5 million head, was 6 percent larger. Hogs intended for market totaled 35.1 million, also an increase of 6 percent.

Hogs and Pigs Kept for Breeding



The cautious attitude may have been heightened by a recent downturn in profitability, and appears to be reflected in producers' farrowing intentions. Barrow and gilt prices fell to the low \$40's per cwt last November, and except for a brief respite in February, have remained there ever since. As a result, feeding margins have been reduced. December-February farrowing intentions in the 10 States as of December 1 were 10 percent larger than a year earlier, but actual farrowings turned out to be only 6 percent larger. March-May intentions did not change between December and March, showing an increase of only 2 percent from a year ago. Intentions for June-August 1988 were also up 2 percent from 1987.

Current indications are that after a rise in late spring and early summer due to a seasonal upturn in hog prices, returns will decline to near breakeven before the end of the third quarter. In the fall, periods of negative returns are possible. Thus, profitability in the hog sector likely will be down substantially from 1987.

Larger Pork Production Expected in 1988

In the first quarter of 1988, commercial pork production totaled 3.787 billion pounds, up 7 percent from a year earlier. Dressed weights were heavy for the second consecutive year, averaging 178 pounds versus the 5-year average of 174. Also for the second year in a row, January marketings constituted a greater-than-normal share of the quarterly total.

Item	1984	1985	1986	1987	1988	1987/86	1988/87
			1,000	head		% ch	ange
Inventory Breeding Market Under 60 lb	40,070 5,446 34,624 12,437	39,680 5,220 34,460 12,701	38,210 4,948 33,262 12,350	38,370 5,215 33,155 12,596	40,495 5,420 35,075 13,455	0 +5 0 +2	+6 +4 +6 +7
60-119 lb 120-179 lb 180 + lb	8,561 7,769 5,857	8,427 7,580 5,752	8,046 7,276 5,590	7,959 7,132 5,468	8,290 7,365 5,965	-1 -2 -2	+4 +3 +9
Sows farrowing Dec. 2/-Feb. March-May Dec. 2/-May June-Aug. SeptNov. June-Nov.	1,964 2,481 4,445 2,259 2,316 4,575	1,955 2,420 4,375 2,191 2,265 4,456	1,863 2,171 4,034 2,074 2,115 4,189	1,916 2,352 4,268 2,257 2,258 4,515	2,030 3/ 2,399 4,429 3/ 2,304	+3 +8 +6 +9 +7 +8	+6 +2 +4 +2
Pig crops Dec. 2/-Feb. MarMay Dec. 2/-May June-Aug. SeptNov. June-Nov.	14,288 18,814 33,102 17,158 17,420 34,578	14,690 18,762 33,452 16,941 17,255 34,196	14,254 16,957 31,211 16,164 16,460 32,624	14,840 18,601 33,441 17,481 17,495 34,976	15,765	+4 +10 +7 +8 +6 +7	+6
			Numbe	er			
Pigs per litter Dec. 2/-Feb. March-May Dec. 2/-May June-Aug. SeptNov. June-Nov.	7.27 7.58 7.45 7.60 7.52 7.56	7.51 7.75 7.65 7.73 7.62 7.67	7.65 7.81 7.74 7.79 7.78 7.79	7.75 7.91 7.84 7.75 7.75 7.75	7.77	+ + + - 0 -	0

I/ Ga., III., Ind., Ia., Kan., Minn., Mo., Neb., N.C., and Ohio. 2/ Dec. preceding year. 3/ Intentions.

Table 27--Sow slaughter balance sheet, 10 States

ltem	1985	1986	1987	1988
		Millio	on head	
December breeding / December-February	5.3	5.3	5.1	5.4
Comm. sow slaughter 2/ Gilts added	.8 .7	.7 .3	.6 .7	.7 .7
March breeding March-May	5.2	4.9	5.2	5.4
Comm. sow slaughter 2/ Gilts added	.7 .9	.6 .6	.6 .7	
June breeding June-August	5.4	4.9	5.3	
Comm. sow slaughter 2/ Gilts added	.8 .8	.7 .7	.8	
September breeding September-November	5.4	4.9	5.3	
Comm. sow slaughter Gilts added	.8 .7	.7 .9	.7	

^{1/} December previous year. 2/ 75 percent of
estimated U.S. commercial sow slaughter.

Table 28--Farrow-to-finish hog production costs and returns, 1,600 head annual sales North Central Region I/

1988				
Feb.	Mar.			
44.24	40.28			
2.02	1.94			
46.26	42.22			
9.82	9.91			
7.39	7.39			
2.82	2.82			
20.03	20.12			
20.07	20.12			
0.73	0.73			
1.50	1.50			
2.42	2.42			
	1.27			
	0.61			
26.56	26.65			
	1.47			
	0.63			
	3.55			
6.13	5.65			
32.69	32.30			
13.57	9.92			
5.84	5.84			
7.73	4.08			
	1.27 0.61 26.56 1.61 0.63 3.89 6.13 32.69 13.57 5.84			

I/ The feed rations and expense items do not necessarily coincide with the experience of individual hog operations and are an average of a group of operators. For individual use, adjust expenses and prices for management, production levels and locality of operation. 2/ Based on 94.25 lb of barrows and gilts liveweight and 5.75 lb of sows per cwt sold. 3/ Includes costs for feed medication, that is usually included as part of the feed cost. 4/ Based on .204 hours per cwt of liveweight hog marketed. 5/ Do not include a charge for family or operator labor (.732 hours) or a charge for land and fixed assets.

	May '87 Sept.'87		July Nov.	Aug. Dec.	Sept. Jan.	Oct. Feb.	Nov. Mar.	Dec. Apr.	Jan. May	Feb. June	Mar. July
Expenses: (\$/head)											
40-50 lb feeder pig	51.66	45.89	45.60	48.05	47.28	41.53	36.56	31.74	37.47	44.80	48.65
Corn (II bu)	18.15	18.48	17.49	15.84	15.95	16.83	17.71	18.76	19.08	20.02	20.13
Protein supplement (130 lb)		17.03	18.72	18.72	18.72	18.79	18.79	18.79	20.28	20.28	20.28
Total feed	35.18	35.51	36.21	34.56	34.67	35.62	36.50	37.55	39.36	40.30	40.41
Labor & management (1.3 hr)		11.13	12.19	12.19	12.19	10.61	10.61	10.61	10.86	10.86	10.86
Vet medicine 2/	2.64	2.64	2.67	2.67	2.67	2.68	2.68	2.68	2.70	2.70	2.70
Interest on purchase (4 mo)	1.88	1.67	1.67	1.76	1.73	1.55	1.37	1.19	1.40	1.68	1.82
Power, equip, fuel,	6.43	6.43	6.50	6.50	6.50	6.52	6.52	C 52	/ EE	. EE	/ EE
shelter depreciation 2/ Death loss (4% of purchase)		1.84	1.82	1.92	1.89	1.66	1.46	6.52	6.55	6.55	6.55 1.95
Transportation (100 miles)	.48	.48	.48	.48	.48	.48	.48	.48	-48	.48	.48
Marketing expenses	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Miscel. & indirect costs 2/		.66	.67	.67	.67	.67	.67	.67	.67	.67	.67
Total		107.39			109.22		97.99			110.97	
Selling Price Required To Cover: (\$/cwt) Feed and feeder costs (220 lb) All costs (220 lb) Feed cost per 100-lb gain (180 lb) Barrows and gilts, 7 mkts Net margin	39.47 51.49 19.54 54.72 3.23	48.81	37.19 49.52 20.12 40.65 -8.87	37.55 49.97 19.20 41.14 -8.83	37.25 49.65 19.26 44.43 -5.22	35.07 46.57 19.79 47.01	33.21 44.54 20.28 42.79 -1.75	31.50 42.66 20.86	34.92 46.42 21.87	38.68 50.44 22.39	40.48 52.38 22.45
Prices:											
40-lb feeder pig	F1 44		45 40	40.05							
(So. Missouri) \$/head	51.66		45.60		47.28	41.53	36.56	31.74	37.47	44.80	48.65
Corn \$/bu 3/	1.65	1.68	1.59	1.44	1.45	1.53	1.61	1.70	1.74	1.82	1.83
Protein supp. (38–42%) \$/cwt 4/	13.10	17 10	14 40	14.40	14.40	IA AE	14.45	14.45	15.60	15.60	15.60
Labor & management \$/hr 5/	8.56	13.10 8.56	14.40 9.38	14.40 9.38	9.38	14.45	8.16	8.16	8.35	8.35	8.35
Interest rate (annual)	10.90		11.00	11.00	11.00	11.22	11.22	11.22	11.22	11.22	11.22
Transportation rate \$/cwt	10.90	10.90	11.00	11.00	11.00	11.22	11.44	11.44	11.44	11.22	11.22
(100 miles) 6/	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
Marketing expenses \$/cwt 7/		1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Index of prices paid by	1.17		1.17		1	1	1	,	1.17		
farmers (1910-14=100)	1116	1116	1128	1128	1128	1132	1132	1132	1138	1138	1138
					, ,						

I/ Although a majority of hog feeding operations in the Corn Belt are from farrow-to-finish, relative fattening expenses will be similar. Costs represent only what expenses would be if all selected items were paid for during the period indicated. The feed rations and expense items do not necessarily coincide with the experience of individual feeders. For individual use, adjust expenses and prices for management, production level, and locality of operation. 2/ Adjusted monthly by the index of prices paid by farmers for commodities, services, interest, taxes, and wage rates. 3/ Average price received by farmers in lowa and Illinois. 4/ Average prices paid by farmers in lowa and Illinois. 5/ Assumes an owner-operator receiving twice the farm labor rate. 6/ Converted from cents/mile for a 44,000-pound haul. 7/ Yardage plus commission fees at a Midwest terminal market.

Year	Barrows & gilts	Sows	Boars	Total	Dressed weight	Commercial production
		1,000 h	nead		Pounds	Million pounds
1986						
1	19,272	920	187	20,379	175	3,570
1 1	19,224	896	196	20,316	176	3,568
111	17,365	999	210	18,573	174	3,237
IV	19,223	927	179	20,330	178	3,623
Year	75,084	3,742	772	79,598	176	13,998
1987	73,004	3,172	,,,	77,770	170	13,330
1	19,008	762	170	19,940	178	3,540
iı .	17,877	846	188	18,911	176	3,327
iii	18,201	1,009	186	19,396	174	3,384
iv'	21,776	888	170		178	
Year				22,834		4,061
1988	76,862	3,505	714	81,081	177	14,312
1	20 203	05.4	102	21 770	177	7 707
•	20,293	854	192	21,339	177	3,787

1/ Classes estimated.

Based primarily on the September-November 1987 pig crop, second-quarter 1988 hog slaughter is expected to be about 20.8 million head. The March 1, 10-State inventory of 60- to 179-pound market hogs, which is also an indicator of second-quarter slaughter, suggests a somewhat smaller kill. However, the high rate of slaughter witnessed in April may corroborate the larger projection. Live weights were heavy in April, barrow and gilts averaged 6 pounds more than a year ago at the 7 major terminal markets, and second-quarter average dressed weights may be about 2 pounds heavier than in 1987. Thus, pork production in the second quarter is projected to be 10 percent above a year ago at 3.675 billion pounds.

Pork production in the third quarter of 1988 may be up about 8 percent from last summer. In this case, the December 1987–February 1988 pig crop and the number of pigs under 60 pounds on March 1 both point toward a total kill of about 21 million head, also up 8 percent. However, weekly slaughter rates in July and early August could exceed year–earlier figures by 11 to 12 percent. Projected at 3.65 billion pounds, third–quarter pork production would be only slightly less than in the spring quarter, a departure from the normal decline of about 6 percent.

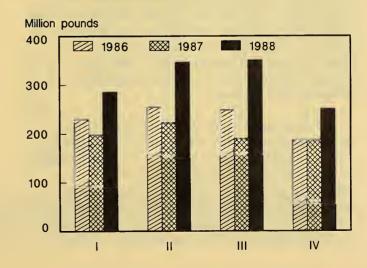
If March-May and June-August 1988 farrowing intentions are realized, pork production will plateau in late 1988 and early 1989. Hog slaughter in the final quarter may

be about the same as in the fourth quarter of 1987, at approximately 22.8 million head, with commercial pork production slightly greater than 4 billion pounds.

Frozen Pork Stocks Substantially Above a Year Ago

As of March 31, 1988, there were 346 million pounds of pork in cold storage, 56 percent more than a year earlier and 25 percent above the 10-year average for that date. Possibly stimulated by consistently favorable basis and cross-product basis ratios (i.e., sizable premiums in futures prices over cash), cold storage stocks have grown rapidly since last October. Led by increases in bellies, spareribs, and trimmings, freezer stocks expanded by 160 million pounds

Pork in Cold Storage



between September 30, 1987, and March 31, 1988. By contrast, a net of only 43 million pounds was moved into storage between September 30, 1986, and March 31, 1987. The low rate of accumulation in 1986/87 resulted in a relatively small stock of frozen pork at the end of spring, which contributed to a rise in pork prices during the summer. This year, however, freezer stocks could become burdensome by the end of the second quarter if accumulation continues at the current pace and production forecasts are realized.

Hog Prices Decline

As a result of a 9-percent increase in per capita pork supplies, first-quarter 1988 hog prices were lower than a year earlier. Barrow and gilt prices at the 7 major markets fell 7 percent to \$44.74 per cwt, while carcass cutout values registered a decline of 4 percent. The spread between hog prices and cutout values widened relative to a year earlier as marketings increased, a trend that is expected to continue through the second quarter.

Barrow and gilt prices fell from near \$50 per cwt in early February to the low \$40's in early March. Weekly hog slaughter under Federal inspection during this period rose from 1.54 to 1.65 million head, a moderate seasonal increase. Average kills remained above 1.6 million through April, and hog prices held near \$42 per cwt.

In the second quarter of 1988, barrow and gilt prices are expected to average \$44-48 per cwt. Weekly slaughter rates could fall below 1.5 million head in June, strengthening cutout values from early spring levels and narrowing the spread between wholesale pork and live hog prices. As a result, barrow and gilt prices could reach \$50 per cwt by the end of the quarter. Per capita pork supplies may be about 10 percent higher than a year ago, however, holding prices well below those achieved last summer.

Price patterns in the third quarter may differ markedly from 1986 and 1987, with a much weaker scenario possible. Cold storage stocks are likely to surface as a major influence on prices, as liquidation of these large stocks applies pressure to wholesale pork values. In addition, hog slaughter may begin to increase earlier than usual this summer.

Table 31--Federally inspected hog slaughter

eek ended	1986	1987	1988
		Thousands	
Jan. 9	1,675	1,683	1,717
16	1,654	1,659	1,766
23	1,563	1,527	1,605
_30	1,506	1,500	1,543
Feb.	1,526	1,455	1,535
13	1,512	1,502	1,544
20	1,501	1,395	1,542
27	1,606	1,533	1,595
Mar. 5	1,635	1,555	1,600
12	1,650	1,577	1,674
iş	1,556	1,573	1,639
26	1,579	1,500	1,631
Apr. 2	1,518	1,529	1,599
9	1,633	1,553	1,573
16	1,651	1,498	1,656
23	1,619	1,393	1,656
30 May	1,637	1,453	1,699
7 7	1,607	1,475	1,634
14	560, ا	1,440	,
21	1,518	1,445	
28 June	1,310	1,226	
4	1,471	1,383	
H	1.459	1,372	
18	1,373	1,341	
25 July	1,330	1,356	
2	1,118	1,193	
9	390, ا	1,360	
16	1,349	1,345	
23 30	1,281 1,314	1,354 1,330	
Aug.	1,514	1,550	
6	1,338	1,372	
13	1,369	1,445	
20 27	1,402 1,419	1,404 1,475	
Sept.			
3	1,257	1,548	
10	1,492	1,363	
17 24	1,504 1,504	1,709 1,620	
0ct.			
ŧ.	1,521	1,658	
8	1,555	1,638	
15 22	1,528 1,551	1,720 1,664	
29	1,580	1,786	
Nov.			
5	1,576	1,791	
12 19	1,537 1,557	1,778 1,770	
26	1,308	1,463	
Dec.			
3	1,530	1,879	
10	1,548 1,503	1,879 1,727	
17		1.1//	
17 24	1,069	1,150	

I/ Corresponding dates to 1988: 1986, January
II; 1987, January 10.

suggesting an earlier seasonal price peak. Per capita pork supplies may be nearly unchanged from the second quarter, exceeding year-earlier levels by about 10 percent. Barrows and gilts at the 7 markets are thus expected to average \$45 to \$49 per cwt, with prices in the low \$40's possible by the end of September.

In 1987 there was an unusually sharp rise in pork supplies from the third to the fourth quarter. This year, a more moderate rise is anticipated, accompanied by a more moderate decline in prices. Per capita pork supplies in the fourth quarter of 1988 are expected to be about the same as a year earlier, with barrow and gilt prices again averaging in the low \$40's per cwt.

Retail Pork Prices Relatively Firm

Retail pork prices have remained relatively strong despite a 6 percent rise in per capita pork production. Reduced supplies of relatively higher-priced beef products have helped support prices of premium pork cuts, which have declined only slightly since late last summer. In first-quarter 1988, the composite retail pork price averaged \$1.84 per pound, down a cent from a year ago and down 6 cents from last fall. For the year, retail

prices are expected to average 1 to 4 percent below 1987's \$1.89 per pound. The rise in the farm-to-retail spread is likely to be 4 to 8 percent. In 1987, the spread rose 10 percent from 1986.

Cash Receipts Total Over \$10 Billion

Cash receipts for hogs and pigs marketed in 1987 totaled \$10.3 billion, up 6 percent from 1986. Prices for all hogs were up 4 percent, while marketings were up 2 percent. In 1988, cash receipts are expected to drop as prices fall 12 to 13 percent, although marketings are expected to rise. [Kevin Bost (202) 786-1285]

Outlook Positive for Pork Exports

U.S. pork exports in 1987 totaled 109 million pounds, up 27 percent from the year before. This upward trend is expected to continue and exports are forecast to reach 120 million pounds in 1988. The major market is Japan, which took over half of U.S. exports last year. The strength of the Japanese yen vis-a-vis the U.S. dollar has reduced the relative cost of imported feed grains and meat. As a result, Japanese pork production and imports are forecast to continue to increase in 1988. Imports account for 16 percent of Japanese pork consumption.

Table 32--Pork: Retail, wholesale, and farm values, spreads, and farmers' share

			Gross			Far	m-retail sp	read	
Year	Retail price 1/	Wholesale value 2/	farm value 3/	By-product allowance 4/	Net farm value 5/	Total	Wholesale- retail	Farm- wholesale	Farmers' share 6/
			· · · · · · · · · · · · · · · · · · ·	Cents p	per pound				Percent
1982	175.4	121.8	94.3	6.3	88.0	87.4	53.6	33.8	50
1983	169.8	108.9	81.4	4.9	76.5	93.3	60.9	32.4	45
1984	162.0	110.1	83.3	5.9	77.4	84.6	51.9	32.7	48
1985	162.0	101.1	76.2	4.8	71.4	90.6	60.9	29.7	44
1986	178.4	110.9	87.3	4.9	82.4	96.0	67.5	28.5	46
1987	188.4	113.0	87.9	5.2	82.7	105.7	75.4	30.3	44
1	185.0	103.8	81.8	5.0	76.8	108.2	81.2	27.0	41
11	183.4	116.6	95.6	5.5	90.1	93.3	66.8	26.5	49
111	195.5	124.3	100.3	5.9	94.4	101.1	71.2	29.9	48
1V 1988	189.7	107.4	74.0	4.3	69.7	120.0	82.3	37.7	37
Jan.	185.3	104.0	75.9	4.6	71.3	114.0	81.3	32.7	38
Feb.	183.1	105.3	80.3	4.8	75.5	107.6	77.8	29.8	41
Mar.	183.3	103.5	72.9	4.3	68.6	114.7	79.8	34.9	41 37 39
1	183.9	104.3	76.4	4.6	71.8	112.1	79.6	32.5	39

^{1/} Estimated weighted-average of BLS prices of retail cuts from pork carcass. 2/ Value of wholesale quantity equivalent to 1 lb of retail cuts. A wholesale-carcass equivalent of 1.06 is used. 3/ Market values to producer for 1.7 lb of live animal, equivalent to 1 lb of retail cuts. 4/ Portion of gross farm value attributable to edible and inedible by-products. 5/ Gross farm value minus by-product allowance.
6/ Percent net farm value is of retail price.

CATTLE

In March the Japanese began extensive testing for residues of sulfamethazine, an antibiotic used to control respiratory infections in hogs. Studies have shown that sulfamethazine caused cancer in laboratory animals. Residues have been found in samples of pork from the United States, Taiwan, and Denmark. In response to a threatened ban on pork imports, the United States, as well as the other major Japanese pork suppliers, have increased testing for this drug.

Pork Imports Increase

U.S. pork imports rose 7 percent in 1987 to 1,195 million pounds, carcass weight. Imports in 1988 are forecast to continue up by another 10 percent. The major suppliers in 1987 were Canada (46 percent) and Denmark (29 percent).

U.S. imports from Canada rose 12 percent in 1987 to 546 million pounds. In Canada, 1987 was a profitable year for pork producers because hog prices were high and feed costs were low. Hog inventories in Canada rose and January 1988 inventories were up 7.5 percent from a year earlier. Pork output increased 4 percent in 1987 and is forecast to rise 6 percent this year. However, projected higher feed costs in the latter part of 1988 should reduce profitability, moderating the growth of output. Exports of Canadian pork and hogs to the United States are forecast to continue to increase because of relatively more favorable U.S. prices.

Imports of Danish pork decreased 6 percent in 1987 to 354 million pounds. To counter the effects of the strength of the Danish krone relative to the dollar, the EC has recently increased export restitutions. These increases are expected to keep Danish trade from declining further. Pork output and hog inventories in Denmark are forecast to be lower in 1988 as large supplies of pork and competing meats hold prices down and squeeze returns to producers. Furthermore, the Danish Parliament passed an environmental protection bill requiring livestock producers to provide storage for manure for 9 months. Some producers are stopping production rather than incur the increased cost of manure tanks. [Linda M. Bailey (202) 786-1285]

Pasture and Forage Conditions

Low moisture conditions and cooler weather have limited pasture growth in the Pacific Northwest and Southeast this spring. In several regions of the West, fall-winter streamflow likely will remain well below normal due to less than adequate winter snowpack. Above-normal rainfall in the Pacific Northwest in March through early May provided some relief, but weather conditions have been dry over the last 3 years. Dry conditions caused pastures to deteriorate in the northern Great Plains in March and April; however, fall-winter streamflow should be above normal throughout the central Great Plains.

Producers indicated intentions to increase harvested hay acreage nearly 1 percent in 1988. Hay stocks on December 1, 1987, were 2 percent below the record stocks of a year earlier, but remained the second largest on record. Winter feeding was likely heavier due to more normal weather compared with milder weather during the past couple of years. The farm price of hay averaged \$72.90 per ton in mid-April, up from \$66.10 a year ago. Alfalfa hay prices averaged \$77.40 a ton, up nearly \$10. Prices for other hay averaged \$53.40, up \$5 a ton.

Cattle on Feed Numbers Up

Cattle on feed on April 1 in the 13 quarterly reporting States were nearly 9.4 million head, 6 percent above a year earlier. While large, this feedlot inventory is only 2 percent above the previous 5-year average and comparable to numbers on feed during the spring quarter of 1984 and 1985. Steers on feed in all weight categories totaled 6.1 million head, 7 percent above the spring quarter of 1987 and the largest steer inventory on feed since April 1979. Nearly 45 percent of the steers fell in the two heaviest weight categories above 900 pounds, up 18 percent from last spring.

Heifers on feed April 1 reached 3.25 million head, 6 percent above a year earlier. This is comparable with inventories during the early 1980's, although there is some bunching in the weight group over 900 pounds. These animals accounted for 27 percent of the total,

Table 33—Cattle on feed, placements, and marketings, I3 States

Item	1986	1987	1988	1988/87
	1,	,000 hea	d	Percent change
On feed Jan I	9,754	9,245	9,769	+6
Placements, JanMar.	5,270	5,680	5,796	+2
Marketings, JanMar.	5,763	5,747	5,810	+1
Other disappearance JanMar.	e 316	371	390	+5
On feed April I	8,945	8,807	9,365	+6
Steer & steer calves	5,600	5,708	6,082	+7
-500 lb 500-699 lb	129 758	140 822	172 641	+23 -22
700-899 lb	2,030	2,417	2,511	+4
900-1,099 lb 1,100 + lb	1,903 780	1,790 539	2,089 669	+17 +24
Heifers & heifer calves	3,302	3,064	3,249	+6
-500 lb 500-699 lb	85 814	97 818	86 755	-11 -8
700-899 lb	1,483	1,390	1,543	+11
900 + lb	920	759	865	+14
Cows	43	35	34	-3
Marketings, AprJune	5,821	5,619	1/5,931	+6

I/ Intentions.

which is comparable with April 1986, but higher than spring-quarter figures for any other period since 1970.

Net placements during the first quarter were 2 percent above a year ago and up 9 percent from 1986. These were the largest winter-quarter placements since the record set in 1978. First-quarter marketings were up only 1 percent in spite of the large number of cattle on feed in the heavier weight groups at the beginning of the quarter. Given the near-record number of heavy cattle on feed, cattle feeders indicated intentions to market 6 percent more cattle during the spring quarter than a year ago. This would push fed cattle marketings above 5.9 million head, the largest April-June marketing number since 1978.

Increased fed cattle marketings this spring will offset a large share of the expected decline in nonfed cattle slaughter.

Commercial cow slaughter could decline another 5 percent from the 1.53 million head reported during the first quarter, pushing cow slaughter 10 percent below the spring of 1987.

Commercial cattle slaughter during January-March was 2 percent below a year ago, with nonfed steer and heifer slaughter

Table 34--13-States cattle on feed, placements, marketings, and other disappearance

Year	On feed I/	Percent change 2/	Place- ments	Percent change 2/	Fed mar- ketings	Percent change 2/	Other dis- apperance	Percent change 2/
	I,000 head	Percent	1,000 head	Percent	1,000 head	Percent	I,000 head	Percent
1985								
1	10,653	7.3	5,315	-3.4	5,907	3.4	373	2.2
iı	9,688	3.7	5,206	-6.5	5,787	3.0	437	-24.9
iii	8,670	3	5,480	-12.3	5,969	5.0	244	-9.0
ÍV	7,937	-11.8	7,365	-3.0	5,224	-5.I	324	-22.3
Year			23,366	-6.1	22,887	1.6	1,378	-15.6
1986					,		.,	
1	9,754	-8.4	5,270	8	5,763	-2.4	316	-15.3
11	8,945	-7.7	5,221	3	5,821	6	375	-14.2
iii	7,970	-8.1	6,336	15.6	5,876	-1.6	233	-4.5
İV	8,197	3.3	6,756	-8.3	5,396	3.3	312	-3.7
Year		-	23,583	.9	22,856	1	1,236	-10.3
1987								
1	9,245	-5.1	5,680	7.8	5,747	3	371	17.4
11	8,807	-1.5	5,906	13.1	5,619	-3.5	428	14.1
111	8,666	-8.7	6,590	4.0	6,022	2.5	242	3.9
IV	8,922	9.7	6,698	9	5,583	3.5	338	8.3
Year			24,874	5.5	22,971	.5	1,379	11.6
1988								
1	9,769	.5.7	5,796	2.0	5,810	1.1	390	5.1
- 11	9,365	6.3			3/ 5,931	5.6		

^{1/} Beginning of quarter. 2/ Percent change from previous year. 3/ Expected marketings.

Table 35--7-States cattle on feed, placements, and marketings

Year	On feed	Percent change I/	Net placements	Percent change I/	Marketings	Percent change I/	Other dis- appearance	Percent change 1/
	1,000 head	Percent	I,000 head	Percent	I,000 head	Percent	l,000 head	Percent
1986								
Jan.	7,920	-8.3	1,494	+12.2	1,750	-1.8	87	-26.3
Feb.	7,664	-6.4	1,128	-9.5	1,470	-4.5	92	-2.1
Mar.	7,322	-7.2	1,564	+4.7	1,593	+2.2	86	-12.2
Apr.	7,293	-6.8	1,445	+12.6	ا 63ر ا	+1.7	120	-9.8
May	7,107	-5.3	1,624	+4.9	1,635	+1.9	132	+3.l
June	7,096	-4.8	095, ا	-7.5	1,648	+4.5	67	-23.0
July	6,543	-7. 3	1,480	+45.5	1,692	+1.3	64	+4.9
Aug.	6,331	-1.1	732, ا	+19.6	659, ا	-2.2	70	+12.9
Sept.	6,404	+4.0	2,044	+7.1	637, ا	+2.1	59	-25.3
Oct.	6,811	+5.4	2,322	-13.8	I,587	+.9	81	-4.7
Nov.	7,546	5	727, ا	+2.2	1,447	+4.9	87	+14.5
Dec.	7,826	8	١,33١	-2.8	1,514	+8.6	104	-6.3
1987								
Jan.	7,643	-3.5	1,464	-2.0	1,803	+3.0	127	+46.0
Feb.	7,304	-4.7	1,337	+18.5	1,478	+.5	105	+14.1
Mar.	7,163	-2.2	1,630	+4.2	1,561	-2.0	89	+3.5
Apr.	7,232	8	1,542	+6.7	1,541	-5.5	139	15.8
May	7,233	+1.8	1,841	+13.4	1,514	-7.4	143	+8.3
June	7,560	+6.5	1,335	+21.9	1,702	+3.3	87	+29.9
July	7,193	+9.9	1,163	-21.4	1,703	+.7	71	+10.9
Aug.	6,693	+5.7 +6.5	1,847	+6.6	1,722	+3.8	68	-2.9
Sept.	6,818 7,535	+10.6	2,358 2,519	+15.4 +8.5	1,641 1,690	2	71	+20.3 +4.9
Oct. Nov.	8,364	+10.8				+6.5	85	
Dec.			1,506	-12.8	1,458	+.8	103 119	+18.4
1988	8,412	+7.5	1,231	-7.5	1,577	+4.2	119	+14.4
Jan.	8,066	+5.5	1,549	+5.8	1,759	-2.4	111	-12.6
Feb.	7,856	+7.6	1,243	-7.0	1,527	+3.3	126	+20.0
Mar.	7,572	+5.7	1,727	+6.0	i,573	+.8	106	+19.1
Apr.	7,726	+6.8	.,		.,			

I/ Percent change is from previous year.

Table 36--Commercial cattle slaughter I/ and production

Year	Stee	ers and heife	ers		Bulls and		Dressed	Commercial
	Fed	Nonfed	Total	Cows	stags	Total	weight	production
			1,000	head			Pounds	Million pounds
1986								
1	6,509	325	6,834	1,885	165	8,884	649	5,769
- 11	6,702	683	7,385	2,006	181	9,572	653	6,246
111	6,745	775	7,520	1,941	191	9,652	651	6,273
iv	6,126	748	6,874	2,129	177	9,180	645	5,925
Year	26,082	2,531	28,613	7,961	714	37,288	649	24,213
1987	20,002	_,,,,	20,015	,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	,
1	6,511	439	6,950	1,652	163	8,765	656	5,754
iı	6,477	619	7,096	1,603	179	8,878	646	5,737
iii	6,945	461	7,406	1,636	isi	9,223	657	6,064
iv'	6,330	566	6,896	1,719	166	8,781	666	5,850
Year	26,263	2,085	28,348	6,610	689	35,647	657	23,405
1988	20,207	2,000	20, 540	0,010	009	JJ,047	077	27,407
1700	6 577	322	6 000	1,526	150	8,575	664	5,696
•	6,577	322	6,899	1,926	150	0,777	004	2,090

I/ Classes estimated.

down 27 percent. Second-quarter cattle slaughter is expected to increase seasonally from the winter quarter to 8.7 million head, down 2 percent from a year earlier and the lowest since 1982. For the year, commercial cattle slaughter may decline about 4 percent from 1987.

Beef Production To Decline

Beef production will not fall off as much as the number of head slaughtered due to the higher proportion of fed cattle in the slaughter mix and heavier dressed weights. Commercial dressed slaughter weights were a record 664 pounds during the first quarter. Dressed steer weights averaged 2 pounds heavier, with heifers unchanged from a year ago. Cow weights were 14 pounds higher and bull weights were up 42 pounds. Cattle weights are expected to remain near the first-quarter average through the spring quarter before falling off several pounds during the second half of the year. For the year, beef production is expected to total about 22.7 billion pounds, 3 percent below 1987.

Larger fed cattle marketings over the next several months are expected to start pressuring fed cattle prices. Choice steer prices at Omaha likely will peak in the mid-\$70's this spring, and may decline to the upper-\$60's shortly thereafter. Large supplies of competing meats also will help hold down prices.

The next run of stronger cattle prices will likely occur this fall through mid-1989 as feeder cattle supplies begin to tighten. The number of heifers on feed remained large on April 1, but these heifers were from last year's crop of possible replacement stock. More heifers are likely to be retained this breeding season, resulting in lower fed cattle marketings beginning in late summer. For the year, fed cattle slaughter is expected to be down only marginally from 1987. Feedlot marketings will not begin to decline sharply until the current inventory of yearlings is reduced.

Feeder Cattle Supplies Down

The supply of yearling cattle outside feedlots on April 1 was unchanged from a year ago, while supplies of lighter weight calves

Table 37--April I feeder cattle supply

Item	1986	1987	1988	1988/ 1987
		1,000 head		Percent change
Calves - 500 lb On farms Jan I. Slaughter Jan-Mar On feed April I I Total Steers & Heifers 500 lb + 2/	. 873	23,154 760 281 22,113	20,895 647 304 19,944	-9.8 -14.9 +8.2 -9.8
On farms Jan I. Slaughter Jan-Mar On feed April I I. Total	. 6,834 / 10,241	22,865 6,950 10,121 5,794	23,404 6,898 10,706 5,800	+2.4 7 +5.8 +.1
Total supply	30,288	27,906	25,744	-7.7

1/ Estimated U.S. steers and heifers. 2/ Not including heifers for cow replacements.

were down nearly 10 percent. Total feeder cattle supplies outside feedlots on April 1 were down 8 percent from 1987. Larger imports of feeder cattle from Mexico this winter have partially offset the reduced supply of domestic feeder cattle. Mexican feeder cattle movements into the United States were delayed several months during fourth-quarter 1987. However, movements across the border during January-February totaled nearly 538,000 head, 60 percent above a year earlier.

Seasonally larger feeder cattle supplies off spring wheat pasture began to soften cash prices during April. Feeder steers weighing 700 to 800 pounds fell from the mid-\$80's to upper-\$70's by May. These prices are expected to continue through the spring quarter, and average in the mid-to-upper \$70's per cwt by summer. Feeder cattle supplies should begin to tighten by fall and stocker cattle prices will likely strengthen into the low \$80's per cwt. This will be a counter-seasonal price move from past years. However, declines in the inventory of light cattle will force feedlots to bid higher prices for placement cattle. This scenario should encourage renewed interest in forward contracting by feedlots.

Beef Imports Rise

U.S. beef imports reached 2,269 million pounds, carcass weight, in 1987, up 7 percent from 1986. Imports are forecast to be up in 1988 to 2.3 billion pounds. The United States imports fresh or frozen, grass fed,

Table 38--Commercial calf slaughter and production

Year	Slaughter	Dressed weight	Produc- tion
	1,000		Million
1986	head	Pounds	pounds
1	873	148	129
i i	836	154	129
111	859	150	129
IV	839	145	122
Year 1987	3,408	149	509
1	760	147	112
11	651	155	101
111	684	145	99
IV	720	144	104
Year 1988	2,815	148	416
1	647	150	97

Table 39--Calf slaughter by class under Federal inspection

	Bob yeal	Fe	d	0ther	
Year	150 lb &	Formula	Nonformula	over	Total
1001	below	150-400 lb	150-400 lb	400 lb	10101
	Delow	130 400 10	170 400 15	400 10	
					
			1,000 head		
1986	LEC O	06.7	26.0	20.7	200.0
Jan.		86.7	26.0	20.3	289.0
Feb.	135.3	83.2	18.8	18.7	256.0
Mar.	147.3	87.5	20.7	20.4	275.9
Apr.		82.7	29.8	21.9	284.2
May	121.2	86.2	29.6	20.4	257.4
Jun.	111.9	84.0	26.4	17.8	240.1
Jul.	149.6	87.2	27.3	17.2	281.3
Aug.		83.8	23.8	18.4	261.9
Sept		86.9	25.0	16.3	263.2
Oct.		86.9	22.1	34.5	276.0
Nov.	117.0	68.1	19.0	34.1	238.2
Dec.	127.1	86.1	17.4	41.0	271.6
Yr	1,618.6	1,009.3	285.9	281.0	3,194.8
1987					
Jan.		87.1	15.1	29.5	247.6
Feb.		82.2	13.3	24.7	224.7
Mar.	120.5	90.2	13.8	26.6	251.1
Apr.		86.8	15.5	23.2	214.9
May	70.0	80.7	14.4	24.0	189.1
Jun.	81.3	94.2	13.3	25.7	214.5
Jul.		80.8	12.1	26.0	220.2
Aug.		64.2	14.8	21.8	202.4
Sept	. 99.4	91.0	14.0	24.2	228.6
Oct.	102.8	85.6	19.3	25.4	233.1
Nov.		70.4	12.3	25.1	211.3
Dec.	117.6	89.5	13.5	21.3	241.9
Yr	1,207.8	1,002.7	171.4	297.5	2,679.4
1988					
Jan.	115.9	87.1	15.1	29.5	247.6
Feb.	95.9	94.0	18.0	16.9	224.8
Mar.	96.3	92.8	11.4	15.3	215.8

manufacturing beef mainly from Australia and New Zealand. Processed beef in airtight containers is imported mainly from Brazil and Argentina. Last year on a carcass weight basis, 70 percent of U.S. beef imports came from Australia and New Zealand, 13 percent from Argentina and Brazil.

Output of beef by major U.S. suppliers is forecast to be up about 1 percent in 1988. Australian output is likely to increase marginally. During 1987 strong demand from Japan and the United States boosted Australia's output. Dry conditions in some areas may slow the expected herd rebuilding this year. The high interest rates and unfavorable exchange rates faced by New Zealand producers are dampening optimism for increases in production and exports.

Argentine output is forecast to decline. However, domestic demand is likely to be down, and if world prices strengthen as expected, exports are forecast to increase. Brazil's output and exports are forecast to rise in 1988. The turmoil in Brazil's cattle industry that caused the Cruzado plan and the resultant drop in output and exports are past, as are the large imports of beef from the EC and the United States.

Imports of fresh, chilled, or frozen beef, veal, mutton, and goat under the Meat Import Law in 1987 totaled 1,489 million pounds, product weight, up 5 percent from a year earlier. The trigger level for 1988 was set at 1,525 million pounds, but imports under the law are forecast to remain under this level.

Beef Exports Up to Japan

Total U.S. beef exports rose 15 percent in 1987 to 604 million pounds, carcass weight. Exports to Japan advanced 12 percent to 397 million pounds. Exports mandated under the Food Security Act of 1985 to lessen the effects of the Dairy Termination Program mainly went to Brazil with some to Venezuela and Mexico in 1986 and 1987. Therefore, because of the completion of the mandate, total beef exports are forecast to decline to 530 million pounds this year, despite increased exports to Japan. [Linda M. Bailey (202) 786–1285]

Week		Cattle			teers						Cows				
ended an. 9 16 23 30 eb. 6 13 20 27 lar 5 12 19 26 pr 2 9 16 23 30 ay 7 14 21 28 une 4 11 8 25 uly 2 9 16 23 30 ug 6 13 20 27 ept 3 10 17 24	1986	1987	1988	1986	1987	1988	1986	Total 1987	1988	1986	Dairy 1987	1988	1986	1987	1988 1988
							Thous	ands					1	Percent	
lan.															
9	757	741	664	343	349	328	189	148	132	79	66	64	42	45	48
	755	766	722	343	360	358	176	151	127	72	67	63	41	44	50
	704 669	707 673	701 673	321 308	336 332	353 340	153 143	124 128	125 117	67 62	61 64	59 56	44 43	49 50	47 48
	009	0/5	0/5	700	772	540	143	120	117	02	04	76	47	70	40
6	655	674	644	307	316	335	144	135	114	64	67	57	44	50	50
	651	621	636	310	303	332	122	119	103	58	59	53	48	50	51
20	638 676	602 657	637 640	289 318	292 326	316 317	126 136	109 121	118 121	59 64	55 65	59 58	47 47	50 54	50 48
lar.	0,0	0,7	0-10	710	720	317	150	121	121	0.4	0,	,,	7,	24	40
5	637	678	618	297	337	307	130	127	115	62	67	57	48	53	50
12	638	646	609	304	311	298	128	124	105	61	58	54	48	47	52
	646 641	624 616	622 607	305 295	300 303	312 304	131 135	111 116	106 108	61 64	55 58	54 53	47 47	49 50	51 49
	041	010	007	277	200	504	1))	110	108	04	76	,,	47	70	47
2	669	652	617	315	328	315	157	121	106	89	57	51	57	47	48
9	716	649	600	354	333	300	148	114	101	97	51	50	65	45	50
	705	681	619	339	349	315	137	119	110	86	52	54	63	44	49
2 <i>3</i>	719 719	639 635	670 679	342 334	330 321	343	159 157	117 118	115	92 84	48 48		58 53	41 41	
May	,,,	0,5	0,,	7,74	321		157	110		04	70		,,,		
7	706	631		327	309		149	116		77	46		52	40	
	731	700		339	348		156	124		74	50		47	37	
	729 643	695 613		334 310	355 308		158 136	131 108		77 64	49 43		49 47	37 40	
June	045	017		210	500		150	100		0-4	47		~ /	40	
	720	680		364	351		142	117		66	50		46	43	
	735	669		375	340		143	115		66	49		46	43	
18 25	691 731	649 680		327 343	320 339		140 147	123 130		65 69	50 52		46 47	41 40	
	,,,	000		242	227		147	100		0,5	72		47	40	
2	612	621		289	316		123	109		59	47		48	43	
	734	652		342	338		149	114		74	51		50	45	
16 23	746 732	682 672		354 346	339 333		163 151	128 121		75 71	53 51		46 47	41 42	
30	685	676		310	339		148	123		75	56		51	46	
Aug.															
6	723	694		339	335		141	123		71	58		50	47	
	767 733	713 692		361 341	354 336		150 147	124 129		78 71	58 63		52 48	47	
~-	718	706		333	341		146	132		74	66		5 l	49 50	
Sept															
3	619	690		291	324		116	119		55	54		47	45	
10	734	624		332	296		134	100		59	44		44	44	
24	722 678	729 677		352 337	336 312		145	124 123		66 63	53 57		46 44	43 46	
Oct.	3,0	0,,		,,,	7.2		1.13	125		0,			-1-1	-10	
- 1	694	684		359	324		134	116		62	53		46	46	
	686	690		342	340		137	120		64	53		47	44	
22	690 688	696 676		318 322	338 319		150 152	128 136		66 61	55 57		44 40	43 42	
29	696	664		325	315		165	140		66	59		40	42	
Nov.															
5	714	649		335	311		165	140		68	58		41	41	
12 19	671 692	643		296 313	301 308		168 175	135 141		73 70	56 57		43	41 40	
26	594	648 576		281	280		133	109		53	46		40	42	
Dec.															
3	685	646		298	305		174	138		74	58		43	42	
10	676	660		302	311		175	140		71	60		41	43	
17 24	691 512	639 482		315 248	324 242		170 105	115 80		73 46	51 39		44 44	44 49	
31	577	561		274	291		130	86		62	41		48	48	
				to 1988:				87, Jan							

Purchased during: Marketed during:	June 87 Dec. 87	July Jan.	Aug. Feb.	Sept. Mar.	Oct. Apr.	Nov. May	Dec. June	Jan. July	Feb. Aug.	Mar. Sept.
Expenses: (\$/head)										
600 !b feeder steer Transportation to	427.14	451.08	464.28	485.40	453.78	443.04	448.50	481.32	503.52	495.66
feedlot (300 miles)	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96
Commission Feed	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Milo (1500 lb) 2/	56.55	55.35	51.15	49.20	51.60	52.95	53.40	54.15	54.75	55.65
Corn (1500 lb) 2/ Cotton seed meal	63.30	60.15	55.50	56.25	58.65	59.85	62.55	63.60	64.65	66.45
(400 lb)	44.00	45.20	45.20	45.20	55.60	55.60	55.60	52.40	52.40	52.40
Alfalfa hay (800 lb)		44.00	42.00	42.80	43.20	45.60	46.80	46.00	46.80	46.40
Total feed cost Feed handling and	209.85	204.70	193.85	193.45	209.05	214.00	218.35	216.15	218.60	220.90
management charge	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
Vet medicine Interest on feeder	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
and 1/2 feed	27.27	28.36	28.76	29.83	30.01	29.56	29.98	30.21	31.41	31.06
Death loss (1.5% of purchase)	6.41	6.77	6.96	7.28	6.81	6.65	6.73	7.22	7.55	7.43
Marketing 3/	F.o.b.	F.o.b.	F.o.b.	F.o.b.	F.o.b.	F.o.b.	F.o.b.	F.o.b	F.o.b.	F.o.b.
Total	701.63	721.87	724.81	746.92	730.61	724.21	734.51	765.86	792.04	786.02
Selling price required to cover: 4/ \$/cwt Feed and feeder cost (1056 lb) All costs Selling price 5/ Net margin	60.32 66.44 66.12	62.10 68.36 67.30 -1.06	62.32 68.64 70.79 2.15	64.29 70.73 72.26 1.53	62.77 69.19	62.22 68.58	63.15 69.56	66.05 72.52	68.38 75.00	67.86 74.43
ost per 100 lb Gain:										
Variable cost less interest \$/cwt	48.05	47.09	44.96	44.95	47.97	48.93	49.82	49,47	50.03	50.47
Feed costs \$/cwt	41.97	40.94	38.77	38.69	41.81	42.80	43.67	43.23	43.72	44.18
rices: Choice feeder steer _600-700 lb_Amarillo	71.19	75.18	77.38	80.90	75.63	73.84	74.75	80.22	83.92	82.61
Transportation rate \$/cwt/100 miles 6/	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
Commission fee \$/cwt	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50
Milo \$/cwt Corn \$/cwt	3.62 4.07	3.54 3.86	3.26 3.55	3.13 3.60	3.29 3.76	3.38 3.84	3.41 4.02	3.46 4.09	3.50 4.16	3.56 4.28
Cottonseed Meal (41%)										
\$/cwt 7/ Alfalfa hay \$/ton 8/	11.00 85.00	11.30 80.00	11.30 75.00	11.30 77.00	13.90 78.00	13.90 84.00	13.90 87.00	13.10 85.00	13.10 87.00	13.10 86.00
Feed handling and	07.00	00.00	77.00	77.00	70.00	04.00	07.00	07.00	07.00	50.00
management \$/ton	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Interest, annual rate 9/	10.25	10.25	10.25	10.25	10.75	10.75	10.75	10.25	10.25	10.25

^{1/} Represents only what expenses would be if all selected items were paid for during the period indicated. The feed ration and expense items do not necessarily coincide with experience of individual feedlots. For individual use, adjust expenses and prices for management, production level, and locality of operation. Steers are assumed to gain 500 lb in 180 days at 2.8 lb per day with feed conversion of 8.4 lb per pound gain. 2/ Texas Panhandle elevator price plus \$0.15/cwt handling and transportation to feedlots. 3/ Most cattle sold f.o.b. at the feedlot with 4-percent shrink. 4/ Sale weight 1,056 lb (1,100 lb less 4-percent shrink). 5/ Choice slaughter steers, 900-1100 lb, Texas-New Mexico direct. 6/ Converted from cents per mile for a 44,000-lb haul. 7/ Average prices paid by farmers in Texas. 8/ Average price received by farmers in Texas plus \$30/ton handling and transportation to feedlots. 9/ Prime rate plus 2 points.

Purchased during: Marketed during:	June '87 Dec. '87	July Jan.	Aug. Feb.	Sept.	Oct. Apr.		Dec. June	Jan. July	Feb.	Mar. Sept.
					,,p, •				,g.	
Expenses: (\$/head)										
600 lb feeder steer	444.00	457.20	476.28	489.00	462.00	477.00	473.00	510.00	501.00	511.20
Transportation										
to feedlot-400 mile	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28
Corn (45 bu)	75.60	71.55	64.80	65.03	68.85	72.45	76.95	78.30	81.90	82.35
Silage (1.7 tons)	28.30	26.84	25.42	25.61	26.19	27.43	28.84	29.38	30.76	31.54
Protein supplement (270 lb)	31.32	33.21	77 21	33.21	31 13	31 13	71 17	77 26	37 26	37.26
Hay (400 lb)	10.00	9.50	33.21 9.40	9.50	34.43 9.40	34.43 9.80	34.43	37.26 10.40	37.26 10.90	11.40
Total feed costs	145.23	141.10	132.83	133.34	138.86	144.10	150.42	155.34	160.82	162.55
Labor (4 hours)	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72
Management (1 hr.) 2/	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86
Vet Medicine 3/	5.25	5.30	5.30	5.30	5.36	5.36	5.44	5.35	5.35	5.35
Interest on purchase	,,,,	3,000	3.50	3.30	3.75	3.70	,,,,	3.00	3 4 3 3	
(6 months)	24.20	25.15	26.20	26.90	25.92	26.76	26.56	28.61	28.11	28.68
Power, equip., fuel,										
shelter, deprec. 3/	24.46	25.12	25.12	25.12	25.38	25.38	25.38	24.94	24.94	24.94
Death loss										
(1% of purchase)	4.44	4.57	4.76	4.89	4.62	4.77	4.73	5.10	5.01	5.11
Transportation										
(100 miles)	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
Marketing expenses	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
Miscellaneous and	10.50	10.04	10.04	10.00	10.00	10.00	10.00	10.70	10.70	10.70
indirect costs 3/	10.58	10.86	10.86	10.86	10.98	10.98	10.98	10.79	10.79	10.79
Total	692.67	703.91	715.96	730.02	707.73	728.96	731.43	774.65	770.54	783.15
Selling price required										
to cover: (\$/cwt)										
Feed and feeder cost										
(1050 lb)	56.12	56.98	58.01	59.27	57.23	59.15	59.41	63.37	63.03	64.17
All costs (1050 lb)	65.97	66.98	68.13	69.46	67.31	69.34	69.57	73.78	73.38	74.59
Feed cost per 100 lb										
gain (450°1b)	32.27	31.36	29.52	29.63	30.86	32.02	33.43	34.52	35.74	36.12
Choice steers,										
Omaha (900-1100 lb)	63.93	65.00	68.31	71.53						
Net margin	-2.04	-1.98	.18	2.07						
Data a										
Prices:										
Feeder steer, Choice										
(600-700 lb) \$/cwt	74.00	76.20	79.38	91.50	77.00	79.50	78.90	95 00	03 50	05 20
Kansas City \$/cwt Corn \$/bu 4/	1.68	1.59	1.44	81.50	1.53	1.61	1.71	85.00 1.74	83.50 1.82	85.20 1.83
Hay \$/ton 4/	50.00	47.50	47.00	47.50	47.00	49.00	51.00	52.00	54.50	57.00
Corn silage \$/ton 5/	16.65	15.79	14.96	15.06	15.41	16.14	16.97	17.28	18.09	18.56
Protein supplement	10.05	12.72	14.70	15.00	12.71	10.14	10.77	17.20	10.07	10.70
(32-36%) \$/cwt	11.60	12.30	12.30	12.30	12.75	12.75	12.75	13.80	13.80	13.80
Farm labor \$/hour	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
Interest rate, annual	10.90	11.00	11.00	11.00	11.22	11.22	11.22	11.22	11.22	11.22
Transportation rate										
\$/cwt. per 100 mile	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
Mktg. expenses										
\$/cwt 8/	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
Index of prices										
paid by farmers					= .					
(1910-14=100)	1116	1128	1128	1128	1132	1132	1132	1138	1138	1138

I/ Represents only what expenses would be if all selected items were paid for during the period indicated. The feed ration and expense items do not necessarily coincide with experience of individuals for management, production, and locality of operation. 2/ Assumes I hour at twice the labor rate. 3/ Adjusted quarterly by the index of prices paid by farmers for commodities, services, interest, taxes, and wage rates. 4/ Average price received by farmers in IA and IL. 5/ Price derived from an equivalent price of 5 bushels corn and 330 Ib hay. 6/ Average price paid by farmers in IA and IL. 7/ Converted from cents/mile for a 44,000-Ib haul. 8/ Yardage plus commission fees at a Midwest terminal market.

Table 43--Imports of feeder cattle and calves and hogs from Canada and Mexico

Year	Canada	ttle and calves Mexico	Hogs Canada
		Number	
986			
Jan.	23,604	142,416	70,480
Feb.	27,346	75,302	47,021
Mar.	24,181	77,763	29,067
Apr.	20,536	54,507	33,260
May	21,734	102,787	25,128
June	18,511	41,353	38,926
July	25,485	53,808	81,333
Aug.	18,084	35,650	51,789
Sept.	16,122	20,333	41,133
0ct.	9,404	11,957	32,937
Nov.	13,938	203,827	21,013
Dec.	8,593	336,228	31,628
Total 987	227,538	1,155,931	503,715
Jan.	17 415	100 014	40 EE0
Feb.	13,615 19,154	108,916 131,631	48,558
Mar.	21,513	134,011	20,745
Apr.	28,569	92,943	32,206 47,763
May	27,497	46,567	31,270
June	35,431	95,977	
July	14,568	28,333	35,143 40,183
Aug.	13,461	3,419	34,300
Sept.	11,138	12	37,560
Oct.	17,638	0	35,499
Nov.	20,549	4,950	31,787
Dec.	21,577	288,173	50,849
Total	244,710	934,932	445,863
985	,,	,,,,,	,002
Jan.	28,013	304,053	58,942
Feb.	29,193	233,635	43,759

Table 44--Beef, Choice Yield Grade 3: Retail, carcass, and farm values, spreads, and farmers' share

Year	Retail price 1/	Gross carcass value 2/	By- product allow- ance 3/	Net carcass value 4/	Gross farm value 5/	By- product allow- ance 6/	Net farm value 7/	Total	Farm reta Carcass- retail		Farmers'
			Cent	s per pou					Per	cent	
1982 1983 1984 1985 1986 1987 1	242.5 238.1 239.6 232.6 230.7 242.5 234.6 243.2 246.4 245.9	152.8 147.4 150.6 137.0 134.3 146.7 138.4 157.6 146.9 144.2	2.1 2.0 3.0 1.8 1.2 1.4 1.5	150.7 145.4 147.6 135.2 133.1 145.3 137.0 156.1 145.5 142.7	155.5 151.8 158.6 142.2 140.0 157.6 147.9 167.8 157.8 156.9	15.0 15.6 18.6 15.4 15.6 19.7 17.6 20.0 20.1 21.0	140.5 136.2 140.0 126.8 124.4 137.9 130.3 147.8 137.7 135.9	102.0 101.9 99.6 105.8 106.3 104.6 104.3 95.4 108.7 110.0	91.8 92.7 92.0 97.4 97.6 97.2 97.6 87.1 100.9	10.2 9.2 7.6 8.4 8.7 7.4 6.7 8.3 7.8 6.8	58 57 58 55 54 57 56 61 56
1988 Jan. Feb. Mar. I	242.9 246.3 248.5 245.9	146.5 149.9 155.8 150.7	1.8 1.7 1.8 1.7	144.7 148.3 154.0 149.0	158.8 166.0 173.1 166.0	22.2 22.8 24.5 23.2	136.6 143.2 148.6 142.8	106.3 103.1 99.9 103.1	98.2 98.0 94.5 96.9	8.1 5.1 5.5 6.2	56 58 60 58

I/ Estimated weighted-average of BLS prices of retail cuts from Choice Yield Grade 3 carcass. 2/ Value of carcass-quantity equivalent to 1 lb of retail cuts. A wholesale-carcass equivalent of 1.476 is used. 3/ Portion of gross carcass value attributed to fat and bone trim. 4/ Gross carcass value minus carcass by-product allowance. 5/ Market value to producer for 2.4 lb of live animal, equivalent to 1 lb of retail cuts. 6/ Portion of gross farm value attributed to edible and inedible by-products. 7/ Gross farm value minus farm by-product allowance. 8/ Percent net farm value is of retail price.

SHEEP AND LAMBS

USDA's Animal Plant Health and Inspection Service (APHIS) has suspended the importation of live lambs into Portland, Oregon. This suspension, effective on March 2, 1988, was in order to rewrite regulations on importation of live lambs into a private facility. The proposed regulations were published in the Federal Register, and were open for a 30-day comment period, after which time APHIS was to study the comments and issue new regulations. At this time the new regulations have not been issued. The approximately 9,000 live lambs that arrived from New Zealand in February have been released for slaughter and into feedlots.

Lamb and mutton production in first-quarter 1988 was 85 million pounds, up about 12 percent from first-quarter 1987. Part of the reason for the large increase was that the religious holidays fell 3 weeks earlier in 1987, pushing the slaughter for the holidays into the first quarter. Second-quarter production is expected to be 78 million pounds, up 4 percent from the same period last year. Production in third and fourth quarter is expected to be about 80 and 83 million pounds, respectively. This brings the yearly total to

Table 45--Commercial sheep and lamb slaughter I/

Year	Lambs	Sheep	Total	Dressed weight	Produc- tion
	١,	000 head		Pounds	Mil lb
1986					
1	1,438	72	1,510	60	90
- 11	1,246	97	1,343	58	78
111	1,324	80	1,404	58	81
IV	1,306	72	1,378	60	82
Year	5,314	321	5,635	59	331
1987					
1	1,213	57	1,270	60	76
- 11	1,211	79	1,290	58	75
111	1,241	75	1,316	59	77
IV	1,253	70	1,323	61	81
Year	4,918	281	5,199	59	309
1988 1	1,292	62	1,354	63	85

I/ Classes estimated.

about 326 million pounds, up about 6 percent from 1987.

Prices for slaughter lambs at San Angelo were around \$81 for the first, quarter and are expected to average about the same in the second quarter. The expected prices for the third and fourth quarters are \$69 to \$75 and \$68 to \$74, respectively.

Table 46--Consumer Price Indexes for meat, poultry, fish, and eggs

		Index	vec.					eat, poultry eggs index	,
	Meat, poultry,	Beef &				Beef &		eggs Tildex	
ear	fish, & eggs	veal	Pork	Poultry	Eggs	veal	Pork	Poultry	Eggs
		1982-	-84=100				Per	cent	
970	44.6	43.5	45.4	53.2	65.6	98	102	119	147
971	44.1	45.5	41.1	53.5	56.6	103	93	121	128
972	48.0	49.7	47.6	54.2	56.2	104	99	113	117
973	60.9	59.6	63.3	76.0	83.6	98	104	122	137
974	62.2	61.3	63.0	72.1	83.9	99	101	116	135
975	67.0	61.9	77.1	79.7	82.4	92	115	119	123
976	68.0	59.9	78.1	76.4	90.0	88	115	112	132
977	67.4	59.5	73.9	76.9	87.1	88	110	114	129
978	77.6	73.1	83.4	84.9	82.4	94	107	109	106
979	89.0	93.1	84.7	89.1	90.2	105	95	100	101
980	92.0	98.4	81.9	93.7	88.6	107	89	102	96
981	96.0	99.2	89.5	97.5	95.9	103	93	102	100
982	99.6	100.6	101.0	95.8	93.3	101	101	96	94
983	99.2	99.1	100.1	97.0	97.7	100	ioi	98	98
984	101.3	100.3	98.8	107.3	109.1	99	98	106	108
985	100.1	98.2	99.1	106.2	91.0	98	99	106	91
986	10001	,0.2	,,,,	10012	,,,,,	,0		100	- '
Jan.	103.2	100.3	101.5	107.1	101.5	100	98	104	98
Feb.	102.0	99.1	100.6	107.3	97.4	97	99	105	95
Mar.	101.7	98.7	99.2	107.1	99.6	97	98	105	98
Apr.	100.4	96.8	97.8	105.9	98.5	96	97	105	98
May	100.1	96.4	97.9	107.4	90.7	96	98	107	91
June	100.7	96.4	100.6	109.8	87.1	96	100	109	86
July	104.4	97.4	108.8	118.0	91.4	93	104	113	88
Aug.	107.5	98.6	114.5	125.2	100.7	92	107	116	94
Sept.	108.2	99.1	117.5	122.2	97.1	92	109	113	90
Oct.	108.2	99.6	116.7	121.7	97.2	92	108	iiź	90
Nov.	108.8	101.0	115.7	120.4	102.2	93	106	111	94
Dec.	109.1	101.7	115.2	118.8	103.7	93	106	109	95
Year	104.5	98.7	107.1	114.2	97.2	94	102	109	93
987	104.5	70.7	107.1	114.2	71.2	27	102	102	,,,
Jan.	109.9	102.9	115.1	117.0	100.8	94	105	106	92
Feb.	108.8	102.2	113.5	116.4	97.8	94	104	107	90
Mar.	108.9	102.9	112.4	114.9	93.9	94	103	106	86
Apr.	108.6	104.0	113.4	91.1	91.1	96	102	104	84
May	109.6	106.5	113.3	113.2	88.5	97	103	103	81
June	110.4	108.3	116.6	112.1	84.1	98	106	102	76
July	111.4	108.4	119.7	111.0	87.8	97	107	100	79
Aug.	111.9	107.8	120.7	112.9	85.8	96	108	101	77
Sept.	112.7	107.4	121.1	112.5	97.6	95	107	100	87
Oct.	112.0	107.4	119.0	111.8	91.4	96	106	99	82
Nov.	111.2	107.6	115.5	107.9	93.9	98	104	97	84
Dec.	110.3	108.5	113.1	107.9	85.5	98 98	103	98	76
Year	110.5	106.3	116.0	112.6	91.5	96 96	105	102	83
rear 988	110.9	100.3	110.0	112.0	91.9	70	105	102	65
Jan.	111.0	107.7	113.4	108.9	90.1	97	102	98	81
		107.7	112.3			98	102	98	77
Feb.	110.6			108.4	85.5	98	102	98 98	79
Mar.	111.2	109.8	112.6	109.1	87.9	77	101	70	19

Table 47--Average retail price per pound of specified meat cuts

Year and item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec
						Dollar	rs					
Choice Beef:												
Ground chuck 1987	1.69	1.65	1.68	1.70	1.70	1.71	1.71	1.72	1.72	1.71	1.74	1.7
1988	1.74	1.74	1.75									
Ground beef 1987	1 70	1 27	1.28	1.29	1 72	1 70	1.31	1 72	1 72	1 77	1.35	1 7
1988	1.30	1.27	1.34	1.29	1.32	1.30	1.51	1.32	1.32	1.33	1.39	1.0
Chuck roast, bone in												
1987 1988	1.68 1.64	1.64	1.63 1.69	1.70	1.65	1.71	1.70	1.66	1.67	1.72	1.71	1.6
Round roast, boneless	1.04	1.74	1.09									
1987	2.54	2.47	2.49	2.45	2.59	2.56	2.50	2.51	2.57	2.58	2.58	2.5
Rib roast, bone in	2.56	2.61	2.67									
1987	3.44	3.44	3.37	3.29	3.48	3.64	3.69	3.67	3.60	3.63	3.64	3.5
1988	3.57	3.59	3.66									
Round steak, boneless 1987	2.80	2.80	2.76	2.81	2.94	2.96	2.91	2.93	2.92	2.96	2.92	2 0
1988	2.88	2.94	2.94	2.01	2.77	2.70	2.71	2.,,	2.72	2.70	2.72	2.,
Sirloin steak, bone in		2.04	0.07	7 00	7 00		2.74	7 07	7.00	7 10		
1987 1988	2.81 2.99	2.96 3.04	2.87 3.12	3.02	3.22	3.44	3.36	3.23	3.26	3.12	3.15	5.1
Chuck steak, bone in												
1987 1988	1.71	1.65	1.64	1.69	1.59	1.62	1.62	1.61	1.61	1.61	1.62	1.6
T-Bone steak, bone in	1.61	1.62	1.64									
1987	3.86	3.79	3.83	4.01	4.33	4.64	4.77	4.45	4.37	4.31	4.29	4.2
1988	4.31	4.27	4.33									
Porterhouse steak, bone in												
1987	4.22	4.19	4.22	4.26	4.36	4.44	4.44	4.42	4.39	4.40	4.44	4.4
1988	4.40	4.43	4.48									
ork:												
Bacon, sliced												
1987 1988	2.12 1.95	2.09 1.94	2.10	2.08	2.11	2.13	2.23	2.28	2.28	2.19	2.07	2.0
Chops, center cut	1.77	1.74	1.72									
1987	2.72	2.70	2.64	2.74	2.78	2.97	3.01	3.00	2.98	2.92	2.74	2.6
1988 Ham, rump or shank half	2.66	2.72	2.68									
1987	1.60	1.59	1.50	1.36	1.44	1.50	1.52	1.56	1.58	1.62	1.65	1.6
1988	1.63	1.57	1.60									
Sirloin roast, bone in 1987	1.90	1.82	1.81	1.89	1.92	1.95	2.02	2.04	2.05	2.01	1.95	1.9
1988	1.92	1.90	1.90		1172	,	2.02	2.04	2.07	2.01	1.,,,	•••
Shoulder picnic, bone in	1 15	1 10	1.00	1 07	1 00	1.07		1 14	1.16		1.16	
1987 1988	1.15	1.10	1.06 1.14	1.03	1.08	1.03	1.11	1.14	1.16	1.19	1.16	1.1
Sausage, fresh, pork,												
loose 1987	2.01	2.02	1.99	1.97	1.98	1.94	2.00	2 02	2 01	1.92	1 07	
1988	2.01	1.97	1.99	1.7/	1.70	1.74	2.00	2.02	2.01	1.92	1.97	1.7
iscellaneous cuts: Ham, canned, 3 or 5 lb												
1987	2.84	2.85	2.83	2.77	2.74	2.76	2.83	2.84	2.83	2.85	2.78	2.7
1988	2.77	2.75	2.71									
Frankfurters, all meat 1987	1.98	1.99	1.96	1.98	1.96	2.00	1.91	2.01	1.98	2.04	2.04	2 0
1988	2.02	2.04	2.05	1.70	1.70	2.00	1.71	2.01	1.70	2.04	2.04	2.0
Bologna				0 1=				0.0:	0.0	0.00		
1987 1988	2.22	2.17 2.23	2.19	2.15	2.14	2.15	2.21	2.21	2.21	2.20	2.21	2.2
Beef liver	2.24	2.23	2.27									
1987	1.02	1.00	1.03	1.02	1.04	1.03	1.03	1.03	1.03	1.05	1.02	1.0
1988	1.01	1.01	1.02									

Year	Product Commer- cial		Begin- ning stocks	lm- ports	Total supply	Ex- ports	Ship- ments	Ending stocks		Per c Carcass weight	Retail	
Beef:					i	Million	pounds			Pou	nds	Million
1986 	5,769 6,246 6,273 5,925 24,213	55 24 24 55 158	420 395 427 385 420	502 482 640 505 2,129	6,745 7,147 7,364 6,871 26,920	102 83 144 193 521	13 12 14 13 52	395 427 385 412 412	6,236 6,626 6,820 6,253 25,935	25.9 27.5 28.2 25.8 107.4	18.9 20.1 20.6 18.8 78.4	240.7 241.2 241.8 242.4 241.6
1987 	5,754 5,737 6,064 5,850 23,405	56 25 24 56 161	412 411 337 381 412	543 627 681 418 2,269	6,765 6,800 7,106 6,705 26,247	127 136 159 183 604	14 13 14 12 52	411 337 381 386 386	6,213 6,315 6,552 6,125 25,205	25.6 25.9 26.9 25.1 103.4	18.7 18.9 19.6 18.3 75.5	242.9 243.4 243.9 244.5 243.8
1988 2/ I Year Pork:	5,696 22,746	56 161	386 386	615 2,300	6,753 25,593	15 60	145 530	419 435	6,174 24,568	25.2 99.9	18.4 72.9	245.2 246.0
1986 	3,570 3,568 3,237 3,623 13,998	23 10 9 23 65	289 330 315 244 289	279 247 282 314	4,162 4,154 3,843 4,204 15,474	16 28 15 27 86	33 30 28 41 132	330 315 244 248 248	3,783 3,781 3,557 3,887 15,008	15.7 15.7 14.7 16.0 62.1	14.8 14.8 13.9 15.1 58.6	240.7 241.2 241.8 242.4 241.6
1987 	3,540 3,327 3,384 4,061 14,312	22 9 9 22 62	248 289 245 244 248	290 296 299 310 1,195	4,100 3,921 3,938 4,637 15,817	19 27 21 42 109	31 28 33 32 124	289 245 244 347 347	3,762 3,620 3,639 4,216 15,237	15.5 14.9 14.9 17.2 62.5	14.6 14.1 14.1 16.4 59.2	242.9 243.4 243.9 244.5 243.8
1988 2/ I Year Veal:	3,788 15,138	22 62	347 347	335 1,300	4,492 16,847	35 140	25 120	420 330	4,012 16,257	16.4 66.1	15.4 62.1	245.2 246.0
1986 	129 129 129 122 509	5 2 3 5 15	11 10 9 7 11	7 4 4 12 27	152 145 145 146 562	 2 5	0 0 0 0	10 9 7 7 7	141 135 136 137 550	0.6 0.6 0.6 2.3	0.5 0.5 0.5 0.5	240.7 241.2 241.8 242.4 241.6
1987 	112 101 99 104 416	5 1 2 5 13	7 6 4 4 7	6 4 6 8 24	130 112 111 121 460	2 2 1 2 7	0 0 0 0	6 4 4 4	122 106 107 115 449	0.5 0.4 0.4 0.5 1.8	0.4 0.4 0.4 0.4	242.9 243.4 243.9 244.5 243.8
1988 2/ 1 Year Lamb and 1	97 397 Mutton:	5 13	4	8 27	114 441	2 5	0 1	5 5	107 430	0.4 1.7	0.4	245.2 246.0
1986 	90 78 81 82 331	3 2 7	13 12 14 14	10 11 8 12 41	116 102 104 110 392	1 0 1 0 2	0 1 0 2	12 14 14 13 13	103 87 89 96 375	0.4 0.4 0.4 1.6	0.4 0.3 0.3 0.4	240.7 241.2 241.8 242.4 241.6
1987 	76 75 77 81 309	2 	13 14 12 7 13	13 12 9 11 44	104 101 99 101 372	0 0 0 0	 	14 12 7 8 8	89 88 91 92 360	0.4 0.4 0.4 1.5	0.3 0.3 0.3 0.3	242.9 243.4 243.9 244.5 243.8
1988 2/ Year	85 326	2 6	8	17 53	112 393	0 2	0 I	7 9	105 381	0.4	0.4	245.2 246.0

Table 48--Red meat supply and utilization, carcass and retail weight I/ (cont'd)

Year	Produc Commer- cial		Begin- ning stocks	lm- ports	Total supply	Ex- ports	Ship- ments	Ending stocks	Total disap- pearance	Per c Carcass weight		Popul- ation
					ı	Million	pounds			Pou	nds	Million
Total red 1986	meat:											
1300	9,558	86	733	799	11,176	119	47	746	10,264	42.6	34.6	240.7
T i	10,021	37	746	743	11,547	112	42	765	10,628	44.1	35.6	241.2
111	9,720	37	765	934	11,456	160	43	650	10,602	43.9	35.2	241.8
١٧	9,752	85	650	843	11,330	222	55	680	10,374	42.8	34.8	242.4
Year	39,051	245	733	3,319	43,349	613	187	680	41,868	173.3	140.2	241.6
1987												
1	9,482	85	680	851	11,098	148	45	719	10,186	41.9	34.1	242.9
- 11	9,240	36	719	939	10,934	165	42	599	10,128	41.6	33.7	243.4
111	9,624	36	599	995	11,254	182	48	635	10,389	42.6	34.4	243.9
١٧	10,096	85	635	748	11,564	227	45	745	10,548	43.1	35.4	244.5
Year 1988 2/	38,442	242	680	3,533	42,897	722	179	745	41,251	169.2	137.5	243.8
1	9,666	85	745	975	11,471	172	50	851	10,398	42.4	34.6	245.2
Year	38,607	242	745	3,680	43,274	657	202	779	41,636	169.2	137.9	246.0

Year	Feder- ally Inspected	laughter Other	Total	Begin- ning stocks	Total supply	Ex- ports	Ship- ments	Ending stocks	Total disap- pearance	Per capita Retail weight	Popul- ation
Young	chicken:	,		Mill	ion pound	İs				Pounds	Million
1986 11 11 1V Year 1987	3,414 3,673 3,620 3,558 r 14,266	5 14 14 16 50	3,419 3,687 3,635 3,575 14,316	27 24 23 25 27	3,446 3,711 3,658 3,600 14,342	121 135 132 178 566	36 34 42 38 149	24 23 25 24 24	3,265 3,519 3,459 3,360 13,603	13.6 14.6 14.3 13.9 56.3	240.7 241.2 241.7 242.4 241.5
 		27 26 17 21 92	3,762 3,933 3,984 3,916 15,594	24 25 24 28 24	3,786 3,958 4,008 3,944 15,618	142 198 223 188 752	39 32 40 40 151	25 24 28 25 25	3,579 3,704 3,717 3,691 14,691	14.7 15.2 15.2 15.1 60.3	242.9 243.4 243.9 244.4 243.7
Year Other	4,000	28 57	4,028 16,332	25 25	4,052 16,357	770	140	35 25	15,422	62.7	245.2 245.9
1986 	136 146 125 123 r 531	25 27 22 22 22 97	161 173 148 145 627	144 161 157 147 144	306 333 305 293 771	3 4 4 5 16	 	161 157 147 163 163	141 172 152 125 589	0.6 0.7 0.6 0.5 2.4	240.7 241.2 241.7 242.4 241.5
1987 11 11 1V Year		24 28 23 24 98	157 183 152 158 650	163 172 182 166 163	320 355 333 324 814	5 6 3 2 15	 	172 182 166 188 188	143 167 165 133 608	0.6 0.7 0.7 0.5 2.5	242.9 243.4 243.9 244.4 243.7
1988 : Year Total	152	27 106	180 678	188 188	368 866	30	4	196 160	672	2.7	245.2 245.9
1986 	3,550 3,819 3,746 3,681 r 14,796	30 41 37 39 147	3,581 3,860 3,782 3,720 14,943	171 184 180 172 171	3,651 4,044 3,963 3,893 15,114	124 139 136 183 582	37 35 42 38 152	184 180 172 187 187	3,406 3,690 3,612 3,484 14,193	14.2 15.3 14.9 14.4 58.7	240.7 241.2 241.7 242.4 241.5
1987 		51 54 41 44 190	3,919 4,116 4,135 4,074 16,245	187 197 206 194 187	4,106 4,313 4,341 4,268 16,432	147 204 226 191 767	40 32 40 41 153	197 206 194 213 213	3,722 3,871 3,881 3,824 15,298	15.3 15.9 15.9 15.6 62.8	242.9 243.4 243.9 244.4 243.7
l Yead Turkey	4,152 r 16,847	55 163	4,191 17,010	213 213	4,404 17,223	800	144	231 185	16,094	65.4	245.2 245.9
1986 	556 717 938 921 r 3,133	25 33 43 37 138	581 750 982 958 3,271	150 151 298 512 150	731 901 1,280 1,470 3,422	5 7 10 27	0 0 1 3 4	151 298 512 178 178	576 598 760 1,279 3,212	2.4 2.5 3.1 5.3	240.7 241.2 241.7 242.4 241.5
1987 	670 865 1,100 1,082 r 3,717	19 26 32 34	689 891 1,132 1,116 3,828	178 226 382 641 178	867 1,117 1,514 1,756 4,006	6 7 7 13 33	0 0 0 3 4	226 382 641 282 282	635 728 866 1,458 3,686	2.6 3.0 3.5 6.0 15.1	242.9 243.4 243.9 244.4 243.7
1988 ; 1 Yea	835	24 166	859 4,226	282 282	1,142 4,508	43	4	353 250	4,211	17.1	245.2 245.9

Table 49--Poultry supply and utilization (cont'd)

	SI	aughter									
Year a	Feder- ally Inspected	0ther	Total	Begin- ning stocks	Total supply	Ex- ports	Ship- ments	Ending stocks	Total disap- pearance	Per capita Retail weight	Popul- ation
				Million	pounds					Pounds	Million
Total Po	oultry:										
1	4,107	55	4,162	321	4,483	129	37	335	3,982	16.5	240.7
11	4,536	74	4,610	335	4,945	144	35	478	4,288	17.8	241.2
111	4,684	80	4,764	478	5,242	143	43	684	4,372	18.1	241.7
١٧	4,603	76	4,679	684	5,362	193	41	365	4,763	19.6	242.4
Year	17,929	285	18,215	321	18,535	609	156	365	17,405	72.0	241.5
1987	4 570	70	4 (00	7.45	4 077	157	40	407	4 757	17.0	242.0
	4,538	70	4,608	365	4,973	153	40	423	4,357	17.9	242.9
111	4,927	80 73	5,007	423 588	5,430	211	. 32	588 835	4,599	18.9	243.4 243.9
Ϊν	5,195 5,112	78	5,268 5,190	835	5,855 6,025	232 204	41 44	495	4,747 5,282	19.5 21.6	243.9
Year	19,772	301	20,072	365	20,437	800	157	495	18,985	77.9	243.7
1988 2		701	20,072	707	20,437	000	17/	477	10,900	//.9	243.7
1,750 2,	4,988	79	5,051	495	5,546			584			245.2
Year	20,907	329	21,236	495	21,731	843	148	435	20,305	82.5	245.9

Table 50--Total red meat and poultry supply and utilization, carcass and retail weight I/

Year	Total produc- tion	Begin- ning stocks	lm-	Total supply	Ex- ports	Ship- ments	Ending stocks	Total disap- pearance	Per ca Carcass weight	Retail weight	Population
						Million	pounds		Pour	nds	Million
	ed meat ar	nd poult	ry:								
1986											
	13,806	1,054	799	15,658	248	84	1,081	14,245	59.2	51.1	240.7
- 11	14,668	1,081	743	16,492	256	77	1,243	14,916	61.8	53.4	241.2
111	14,521	1,243	934	16,698	304	86	1,334	14,975	61.9	53.3	241.8
١٧	14,516	1,334	843	16,693	415	96	1,044	15,137	62.4	54.4	242.4
Year	57,511	1,054	3,319	61,884	1,223	343	1,044	59,273	245.3	212.2	241.6
1987	· ·						•	·			
1	14,175	1,045	852	16,072	301	86	1,142	14,542	59.9	52.0	242.9
11	14,283	1,142	940	16,364	376	74	1,187	14,728	60.5	52.6	243.4
111	14,928	1,187	995	17,109	414	88	1,470	15,136	62.0	53.9	243.9
١٧	15,371	1,470	749	17,589	431	88	1,240	15,830	64.7	57.0	244.5
Year	58,756	1.045	3.533	63,334	1,522	336	1,240	60,236	247.1	215.3	243.8
1988 2		.,5.,5	-,	02,33.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,	., . 10	00,200		217.7	21,510
Year	60,085	1,240	3,680	65,005	1,500	350	1,214	61,941	251.7	220.4	246.0

Table 51--Selected price statistics for meat animals and meat, 1987-88

Item	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar
					Dolla	ars per d	cwt				
laughter Steers: Omaha											
Choice, 1000-1100 Select, 1000-1100		68.83 61.27	65.80 58.40	64.50 58.21	64.81 59.38	64.81 59.90	64.20 59.50	63.93 59.25	65.00 63.14	68.31 65.84	71.5 69.1
Choice, 1000-1100	Ib 70.47	69.06	65.80	66.38	66.90	65.94	65.88	65.15	65.58	69.00	71.0
Choice, 1000-1100	IЬ 71 . 95	70.01	65.74	65.16	66.41	66.94	66.87	65.48	66.48	70.08	71.
Texas Choice, 1000-1100 laughter heifers:	IЬ 7I.80	69.96	65.70	65.12	66.46	67.00	67.09	66.12	67.30	70.53	72.
Omaha Choice, 1100-1200 Select, 900-1000 I		69.42 63.42	65.69 61.12	64.19 60.58	64.31 61.08	64.43 61.13	63.79 60.63	63.63 60.22	65.07 62.13	68.05 64.71	71. 67.
ows: Omaha	44.05	47 71	45.05	46.07	47.07	46.05	44.54	46.00	45.00	46.16	47
Commercial Breaking Utility Boning Utility Canner	44.05 44.36 37.95 37.95	43.31 44.72 38.17 38.25	45.25 45.64 40.36 40.36	46.97 46.35 41.23 41.23	47.83 47.62 41.79 41.79	46.25 46.41 40.25 40.25	44.56 44.83 38.97 38.97	46.20 46.69 41.30 41.30	45.09 45.90 47.83 42.28	46.16 47.32 49.55 44.10	47. 48. 49. 43.
Cutter ealers:	42.85	43.14	44.60	45.30	45.42	44.52	42.93	45.31	46.52	48.91	48.
Choice, So. St. Pau eeder steers: I/ Kansas City	90.00	90.63	77.50	79.22	80.25	82.50	82.50	83.00	86.88	87.50	87.
Medium No. I, 400-500 lb 600-700 lb	83.06 73.38	84.33 74.00	87.33 76.20	88.13 79.38	92.40 81.50	87.75 77.00	89.33 79.50	87.30 78.90	94.25 85.00	97.83 83.53	
All weights and grades Okla. City	70.53	70.21	71.22	75.31	77.10	73.21	74.92	73.69	80.26	81.64	83.
Medium No. I 400-500 lb 600-700 700-800 Amarillo	85.96 73.40	86.44 75.50	90.14 78.66	93.58 81.34	98.63 83.45	93.38 79.68	95.05 79.99	95.69 80.97		104.42 85.99	
Medium No. I, 600-700 lb Georgia Auctions	69.63	71.19	75.18	77.38	80.90	75 . 63	73.84	74.75	80.22	83.92	82.
Medium No. I, 600-700 lb Medium No. 2,	67.25	69.25	70.13	72.75	75.60	70.63	72.13	71.67	77.75	81.75	82.
400-500 lb eeder heifers: Medium No. I,	72.63	72.00	75.63	76.75	80.40	74.00	78.50	77.33	82.88	88.50	89.
Kansas City 400-500 lb 600-700 lb	74.63 67.63	74.33 68.25	75.25 70.40	78.50 75.00	82.40 74.00	77.06 72.81	78.67 74.83	80.20 74.20	86.50 76.00	86.38 77.35	88. 78.
kla. City 400-500 lb. 600-700 lb. laughter hogs: Barrows and gilts	74.98 66.95	76.24 68.81	78.99 71.58	78.22 73.97	83.80 76.26	83.49 73.99	83.56 72.32	81.53 73.37	83.08 76.75	88.39 78.49	89. 77.
Omaha No. 1 & 2, 230-240 lb All weights	55.81 55.39	60.82	62.20 61.72	60.62 60.50	55.29 54.63	49.20 48.97	42.07 40.57	42.71	46.41	48.55 46.78	43. 42.
Sioux City 7 markets 2/ Sows:	55.79 55.58	61.37	62.69 61.85	60.56 60.35	55.19 54.72	49.28 48.75	40.74	41.56	44.59 44.43	48.50 47.01	43. 42.
7 markets 2/ eeder pigs:	46.26	46.35	48.09	49.76	49.72	44.87	35.12	32.96	34.18	36.98	35.
No. 1 & 2, So. Mo., 40-50 lb (per hd.)		45.89	45.60	48.05	47.28	41.53	36.56	31.74	37.47	44.80	48.

Continued--

Table 51--Selected price statistics for meat animals and meat, 1987-88--Continued

Item	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
				ſ	Oollars	per cw	+				
Slaughter lambs:	04 50	84.83	76.83	71.83	70.05	66.25	65.00	77 07	83.53	77.25	03 75
Choice, San Angelo Choice, So. St. Paul		80.45	72.34	71.65		65.23			83.88	80.18	76.40
Ewes, Good, San Angelo	36.25	34.62	36.62	38.67	39.81	37.12		39.88		38.25	
So. St. Paul Feeder lambs:	20.50		19.50	19.95	21.10			22.00		22.25	18.98
Choice, San Angelo Choice, So. St. Paul	92.10	94.56 90.40	98.75 84.49		102.55 88.00				113.63		
Farm prices: Beef cattle	63.00	62.50	61.10	61.90	63.70	62.90	62.00	62.20	65.10	67.40	68.30
Calves Hogs		78.80 60.30	80.30	82.30 58.60	85.90 54.30	81.40		83.10	86.20 42.70	92.60	93.50 42.20
Sheep	28.30	25.70	28.50	32.00	32.50	31.50	30.90	33.10	33.60	30.10	29.70
Lambs Meat prices:	90.10	83.50	78.70	76.10	76.80	71.90	65.70	72.80	81.80	80.40	80.20
Wholesale Central U.S. markets											
Steer beef, Choice,											
600-700 lb Heifer beef, Choice	107.80	105.71	99.29	95.45	96 .87	96.77	95.34	94.50	97.15	99.50	103.47
500-600 lb Cow beef, Canner	107.55	104.73	98.18	94.04	96.15	96.03	94.16	93.73	96.60	98.98	103.19
and Cutter	82.05	84.15	84.51	85.63	86.82	83.80	83.41	88.45	88.98	92.18	90.33
Boxed beef cut-out value											
Pork loins, 14-18 lb 4/	120.77	124.38	121.73	123.50	122.66	103.49	80.35	84.70	102.43	94.93	87.82
Pork bellies, 12-14 lb	67.21	78.44	83.62	80.46	59.74	49.39	45.86	42.60	51.82	48.40	45.32
Hams, skinned,		78.91							66.70		
Pork cut-out value	70.70	70.71	17.77	00.17	77.70	27.01	20.30	21.20	00.70	70.07	70.77
East Coast: Lamb, Choice and											
Prime, 35-45 lb 55-65 lb									161.88 156.88		
West Coast:	173.00	102.00	140.27	141.00	137.00	174.70	129.70	144.50	170.00	171.27	100.07
Steer beef, Choice, 600-700 lb	108.75	109.44	106.00	nq	103.00	101.33	nq	nq	nq	nq	nq
					Cents	per 1b					
Retail Prices:											
Beef Choice	247 4	240.4	248.2	245 4	245 5	245 7	246.6	245 7	242.0	246 7	240 5
All Fresh		249.4 214.4		245.4 213.9		245.7 214.5	246.6 217.7			246.3 217.6	248.5 220.0
Pork	183.7	187.6	193.6	196.2	196.9	194.4	189.2	185.6	185.3	183.1	183.3
Price indexes: (BLS)					1982-8	34=100					
Retail meats	108.7	110.6	111.7	112.1	112.0	111.8	111.1	110.4	110.1	110.2	109.8
Beef and veal	106.5	108.3	108.4	107.8	107.4	107.8	108.6	108.5	107.7	108.5	109.8
Other meats	108.3	108.8	109.3	111.5	112.3	112.2	112.2	112.1	112.1	112.3	112.0
Poultry Livestock-feed ratios,	113.2	112.1	111.0	112.9	112.5	111.8	107.9	107.8	108.9	108.4	109.1
Omaha: 3/								-,-			70.1
Steer-corn Hog-corn	40.1 31.6	38.8 34.3	41.0 38.4	44.0	42.8 36.3	41.2 31.0	38.4 24.3	36.7 23.8	36.4 25.0	37.4 25.7	38.4 23.0
3											

^{1/} Reflects new feeder cattle grades. 2/ St. Louis N.S.Y., Kansas City, Omaha, Sioux City, So. St. Joseph, So. St. Paul, and Indianapolis. 3/ Beef, Choice 2-3 550-700 lb. 4/ Prior to 1984, 8-14 lb; 1984 and 1985, 14-17 lb; 1986, 14-18 lb. 5/ U.S. #2, 175 lb carcass. 6/ Bushels of No. 2 yellow corn equivalent in value to 100 pounds live weight.

Item	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
				ı	Doll a rs	per cwt	+				
Slaughter lambs: Choice, San Angelo	94 50	84.83	76.83	71.83	70.05	66 25	65.00	73 83	83.53	77 25	83 75
Choice, So. St. Paul		80.45	72.34	71.65	66.86		66.30		83.88	80.18	76.40
Ewes, Good, San Angelo	36.25	34.62	36.62	38.67	39.81	37.12	37.83	39.88	43.19	38.25	41.17
So. St. Paul Feeder lambs:	20.50		19.50	19.95	21.10	22.00	22.00			22.25	18.98
Choice, San Angelo Choice, So. St. Paul	92.10		98.75 84.49	96.75 85.00					113.63		
Farm prices: Beef cattle	63.00	62.50	61.10	61.90	63.70	62.90	62.00	62.20	65.10	67.40	68.30
Calves Hogs	77.30	78.80 60.30		82.30 58.60		81.40			86.20 42.70		93.50 42.20
Sheep	28.30	25.70	28.50	32.00	32.50	31.50	30.90	33.10	33.60	30.10	29.70
Lambs Meat prices:	90.10	83.50	78.70	76.10	76.80	/1.90	65.70	72.80	81.80	80.40	80.20
Wholesale Central U.S. markets											
Steer beef, Choice, 600-700 lb	107.80	105.71	99.29	95.45	96.87	96.77	95.34	94.50	97.15	99.50	103.47
Heifer beef, Choice 500-600 lb	107 55	104.73	98.18	94.04	96.15	96.03	94.16	93.73	96.60	98.98	103.19
Cow beef, Canner		84.15									
and Cutter Boxed beef	62.09	64.15	64.91	67.65	00.02	03.60	02.41	00.49	00.70	92.10	90.77
cut-out value Pork loins,											
14-18 b 4/ Pork bellies	120.77	124.38								94.93	87.82
12-14 lb Hams, skinned,	67.21	78.44	83.62	80.46	59.74	49.39	45.86	42.60	51.82	48.40	45.32
14-17 lb Pork cut-out value	70.98	78.91	79.93	86.15	93.58	97.81	96.36	91.98	66.70	76.67	78.35
East Coast:											
Lamb, Choice and Prime, 35-45 lb		165.00									
55-65 lb West Coast:	173.00	162.00	148.25	141.00	137.60	134.56	129.56	144.90	156.88	151.25	153.37
Steer beef, Choice, 600-700 lb	108.75	109.44	106.00	na	103.00	101.33	na	ng	ng	nq	ng
						per Ib			,	,	·
Retail Prices:					001113	per 15					
Beef	047.4	240.4	040.0	045.4	245 5	045.7	246.6	245 7	242.0	246 7	240 E
Choice All Fresh	212.8	249.4	213.9	213.9	213.1	245.7 214.5	217.7	218.6	242.9	246.3	248.5 220.0
Pork ·	183.7	187.6	193.6	196.2	196.9	194.4	189.2	185.6	185.3	183.1	183.3
Price indexes: (BLS)					1982-	34=100					
Retail meats Beef and veal	108.7	110.6	111.7	112.1 107.8	112.0 107.4	111.8	111.1	110.4	110.1 107.7	110.2	109.8
Pork	113.3	116.6	119.7	120.7	121.1	119.0	115.5	113.1	113.4	112.3	112.6
Other meats Poultry	108.3	108.8	109.3	111.5	112.3	112.2	112.2	112.1	112.1	112.3	112.0
Livestock-feed ratios, Omaha: 3/											
Steer-corn Hog-corn	40.1 31.6	38.8 34.3	41.0 38.4	44.0	42.8 36.3	41.2	38.4 24.3	36.7 23.8	36.4 25.0	37.4 25.7	38.4 23.0
I/ Potlanta nou fondon											

I/ Reflects new feeder cattle grades. 2/ St. Louis N.S.Y., Kansas City, Omaha, Sioux City, So. St.
Joseph, So. St. Paul, and Indianapolis. 3/ Beef, Choice 2-3 550-700 lb. 4/ Prior to 1984, 8-14 lb; 1984
and 1985, 14-17 lb; 1986, 14-18 lb. 5/ U.S. #2, 175 lb carcass. 6/ Bushels of No. 2 yellow corn
equivalent in value to 100 pounds live weight.

					987						1988	
Item	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar
						1,000	head					
ederally inspected:												
Slaughter Cattle	2,875	2,780	2,945	3,009	2,972	2,977	3,024	2,640	2,793	2,832	2,679	2,813
Steers	1,474	1,392	1,482	1,517	1,451	1,381	1,460	1,260	1,373	1,419	1,360	1,394
Heifers	828	825	874	889	932	1,023	929	784	836	864	792	868
Cows	517	505	531	545	533	511	573	547	535	503	480	498
Bulls and stags Calves	57 215	58 189	58 214	58 220	56 202	62 229	62 233	49 211	49 242	46 205	47 203	53 216
Sheep and lambs	477	363	407	411	400	459	446	399	439	380	408	535
Hogs	6,492	5,922	5,987	6,019	6,019	6,855	7,519	7,121	7,583	6,803	6,518	7,505
Percentage sows	4.0	4.2	5.3	5.6	5.4	4.7	4.0	3.9	3.8	4.2	4.4	4.0
						Pound	s					
Average live wt per h	ead 1,097	1,091	1,089	1,096	1,103	1,118	1,123	1,126	1,128	1,123	1,122	1,120
Calves	243	255	251	238	227	237	241	233	231	239	250	242
Sheep and lambs	117	117	116	118	118	120	123	122	124	123	125	129
Hogs Average dressed wt	247	247	248	246	244	246	249	252	250	248	247	247
Beef	654	650	650	656	662	670	677	671	670	671	669	670
Veal	146	156	152	146	137	143	146	142	142	145	153	147
Lamb and mutton	59 176	59 177	58 177	59 176	59 175	61 175	62 177	62 180	62 179	62 179	63 178	66 178
TOIK	170	1//	177	176	175	175	1//	160	179	179	176	170
					Mi	llion p	ounds					
Production	1.074	1 000	1 000	1 066	1 050	1 000	2 070	1.700	LOCE	1 007	1 704	. 070
Beef Veal	1,874 31	1,800 29	1,908 32	1,966 31	1,959 27	1,988	2,038 33	1,766 29	1,865 34	1,893	1,784 30	1,878 31
Lamb and mutton	28	21	23	24	23	28	27	25	27	23	26	35
Pork	1,141	1,044	1,058	1,055	1,048	1,199	1,329	1,278	1,352	1,214	1,156	1,331
Commercial: 1/ Slaughter						1,000 h	ead					
Cattle	2,971	2,872	3,035	3,099	3,056	3,068	3,131	2,751	2,899	2,921	2,758	2,896
Calves	226	200	225	231	212	240	246	222	252	214	210	223
Sheep and Lambs Hogs	496 6,667	374 6,084	420 6,160	426 6,188	416 6,180	474 7,027	460 7,700	412 7,321	451 7,813	390 6,977	416 6,682	548 7,680
nogs	0,007	0,004	0,100	0,100				7,521	7,015	0,777	0,002	7,000
					Mi	llion p	ounds					
Production Beef	1,928	1.851	1,958	2,017	2,007	2,040	2,098	1,828	1,924	1,943	1,828	1,925
Veal	34	32	35	34	30	35	36	32	36	32	32	33
Lamb and mutton	29	22	24	25	24	28	28	25	28	24	26	35
Pork	1,170	1,071	1,086	1,082	1,075	1,227	1,359	1,312	1,390	1,244	1,183	1,360
old storage stocks: 2/ Beef	312	280	253	279	269	287	308	304	289	312	328	313
Veal	6	5	4	4	4	4	4	5	4	5	5	5
Lamb and mutton	13	14	12	9	8	7	7	9	8	8	8	7
Pork Total meat	218 591	219 560	189 499	181 516	175 496	186 523	212 576	252 614	285 623	287 656	308 693	346 716
rade:	221	700	7//	710	470	727	570	014	023	0,00	0//	710
Imports (carcass wt)	100.4	100.6	070 1	252.5	015 1	017.7	100 5	.77.0	06.0	075 4	100.0	
Beef Veal	199.4	189.6	238.1	252.5	215.1	213.3	188.5 5.5	133.9	96.0 1.1	275.4	190.9	
Lamb and mutton	4.3	3.9	3.3	2.9	2.3	3.6	2.6	2.4	2.4	7.1	5.9	
Pork	102.7	90.1	103.4	101.7	97.1	100.6	111.3	102.5	96.0	89.7	104.9	
Exports (carcass wt)	41.1	48.6	46.0	52.7	50.9	55.7	63.7	67.1	51.0	43.4	40.3	
Beef Veal	.8	48.6	46.0	.4	.3	.4	.2	.7	51.9	.6	.8	
Lamb and mutton	.1	.1	.1	.1	.2	.1	.2	.1	.1		.1	
Pork	9.2	9.6	8.3	6.8	5.7	8.6	12.2	16.5	13.5	8.1	7.8	

^{1/} Federally inspected and other commercial. 2/ End of month. Beginning January 1977, excludes beef and pork stocks in cooler.

Page Table

Livestock, poultry, and egg production and prices (Percent changes are from a year earlier.) Eggs and poultry: Value of production, 1980-87 1/ Layers on farms and eggs produced, 1987-88 1/ Force moltings and light-type hen slaughter, 1986-88 Egg-type chick hatchery operations, 1986-1988 Eggs: Production and value, 1980-87 1/ Egg prices and price spreads, 1986-88 Shell eggs broken and egg products produced under Federal inspection, 1987-88 Egg Supply and Utilization (Population includes Military) 1/ Broilers: Eggs set and chicks placed weekly in 12 commercial States, 1987-88 1/ Broiler chicks hatched and pullet chicks placed in hatchery supply flocks, 1986-88 Federally inspected young chicken slaughter, 1987-88 Estimated costs and returns, 1987-88 1/ Young chicken prices and price spreads, 1986-88 Broilers: Production and value, 1980-87 1/ Nonbroiler chickens: Production and value of sales, 1980-87 1/ Turkey hatchery operations, 1985-88 1/ Federally inspected turkey slaughter, 1987-88 Commercial broilers and turkeys: Number produced or raised by States and regions, by years, 1985-87 1/ Turkey prices and price spreads, 1986-88 Turkeys: Production and value, 1980-87 U.S. Broiler Exports to Major Importers, January-February, 1987-1988 U.S. Mature Chicken Exports to Major Importers, January-February, 1987-1988 U.S. Turkey Exports to Major Importers, January-February, 1987-1988 U.S. Egg Exports to Major Importers, January-February, 1987-1988 1/ Hogs on farms March I, farrowings and pig crops, 10 States I/ Sow slaughter balance sheet, 10 States Farrow-to-finish hog production costs and returns, 1,600 head annual sales North Central Region I/ Corn Belt hog feeding: Selected costs at current rates I/ Commercial hog slaughter I/ and production Federally inspected hog slaughter Pork: Retail, wholesale, and farm values, spreads, and farmers' share Cattle on feed, placements, and marketings, 13 States 13-States cattle on feed, placements, marketings, and other disappearance 7-States cattle on feed, placements, and marketings Commercial cattle slaughter I/ and production April I feeder cattle supply Commercial calf slaughter and production Calf slaughter by class under Federal inspection Federally inspected cattle slaughter Great Plains custom cattle feeding: Selected costs at current rates I/ Corn Belt cattle feeding: Selected costs at current rates 1/ Imports of feeder cattle and calves and hogs from Canada and Mexico Beef, Choice Yield Grade 3: Retail, carcass, and farm values, spreads, and farmers' share Commercial sheep and lamb slaughter I/ and production Consumer Price Indexes for meat, poultry, fish, and eggs Average retail price per pound of specified meat cuts Red meat supply and utilization, carcass and retail weight I/ Poultry supply and utilization Total red meat and poultry supply and utilization, carcass and retail weight 1/

Selected price statistics for meat animals and meat, 1987-88

Selected marketings, slaughter, stocks, and trade for meat animals and meat

245 A BRIEF DESCRIPTION OF THE EGG PRODUCT SUBSECTOR/

by Mark Weimar and Robert Bishop

Abstract: The egg product subsector is examined in brief. The growth of the industry from 1950 to 1987 along with a discussion of raw materials, intermediate products and final forms are presented. Prices and price determination are studied. Regional production of egg products is scrutinized and compared with regional production of shell eggs. Data transformation techniques are explained and a brief outlook for the subsector is provided.

Keywords: Processed eggs, egg products, table eggs, prices, supply, utilization, concentration ratios, regional production.

Egg products are an important and growing component of the overall egg industry. The egg products subsector prepares pasteurized liquid, frozen, and dried egg products, such as whole eggs, yolks, and blends, from shell eggs. These products are used primarily as raw materials in the food subsector and to a minor extent in nonfood manufacturing industries. The egg product industry will probably continue to grow because the Hotel, Restaurant, and Institutional (HRI) trade and convenience foods are among the fastest growing food subsectors.

This paper presents a brief overview of the egg products subsector in terms of its growth, product form, prices, regional production, structure, techniques used to estimate some of the data series, and outlook. The growth of the subsector as a proportion of the egg industry is the primary reason for updating the relatively scant information available. Because the subsector has changed since earlier studies, the basic components of the industry also need to be updated. In the first section, the product forms will be outlined. Both the types of eggs used for breaking and the resultant product will be described. In the next section, price determination and the prices reported by the USDA will be examined. Following this, the regional production of egg products will be compared with the regional production of eggs.

To complete the picture of the subsector, concentration will be examined. In addition, the underlying structure will be studied in terms of both horizontal and vertical

Table I. Processing egg production by type

				•	
		Liquid p	roduction	from eggs	broken
			Immed-		Used
	Eggs		iate		for
Year	broken	Total	cons.	Frozen	drying
	D. G. G.	.0.0.	551154	7102011	ar y ring
	1000 doz.		1000 r	oounds	
	1000 002		1000	Journas	
1950	532,550	701,368	20,115	354,148	322,400
	310 202	100 654	10 340	330 537	50,777
1951	310,292	408,654	18,340	339,537	
1952	290,572 312,500	382,683	18,404	320,352	43,638
1953	312,500	411,562	21,034	343,064	47,176
1954	353,782	465,931	31,031	361,184	73,716
1955	344,979	454,338	33,153	341,514	78,768
1956	353,059	464,979	33,111	349,085	82,659
1957	361,206	475,708	37,494	333,823	103,413
1958	365,799	481,757	31,334	350,886	98,578
1959	532,513	701,320	51,163	435,722	214,435
1960	442,267	582,466	44,025	362,366	176,075
1961	482,093	634,919	47,925	370,918	216,076
1962	481,977	634,764	55,473	381,683	197,608
1963	445,723	587,018	57,849	362,791	166,378
1964	500,350	658,961	68,105	381,606	209,250
1965	477,443	628,792	44,384	368,309	216,099
1966	471,821	621,392	40,310	356,440	224,642
1967	608,726	801,691	59,493	434,864	307,334
1968	513 858	676,751	62,966	360,606	253,179
1969	513,858	640 392			223,841
	486,241	640,382	82,145	334,396	200 702
1970	567,869	747,883	109,783	357,318	280,782
1971	642,137	842,015	113,038	369,004	359,973
1972	628,560	833,358	111,375	371,962	350,020
1973	547,232	703,544	119,194	341,294	243,056
1974	624,609	778,117	144,842	359,885	273,390
1975	553,147	689,566	173,155	302,347	214,065
1976	591,909	733,906	193,572	307,267	233,068
1977	686,344	849,668	197,847	361,761	290,060
1978	686,024	837,799	206,685	345,914	285,200
1979	701,287	850,167	219,414	331,887	298,865
1980	728,747	859,381	215,877	330,294	313,210
1981	731,662	865,989	216,514	340,034	309,441
1982	732,707	863,869	225,420	334,592	303,857
1983	731,921	877,219	248,525	303,557	325,137
1984	768,927	912,685	273,094	329,013	310,578
1985	812,608	984,061	280,819	328,493	374,749
1986	857,441	952,284	282,992	342,199	327,093
1987	942,083	1,048,736	294,826	357,394	396,516
1707	742,000	1,040,750	274,020	221,224	220,210

1/ Federal inspection of egg products began in 1971. Data prior to that period are not comparable to data after that period. integration. Concentration ratios for egg products firms will be presented.

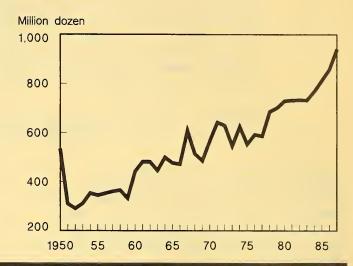
Some of the data presented in this paper were calculated. For those data that were derived from existing but nonconforming data sets, there is a short description of the transformations used in making the data series as similar as possible. A brief summary of the subsector and an outlook for its continued growth conclude the paper.

Growth in the egg product industry was relatively steady during 1950–87, with fairly strong growth registered in the past 4 years (table 1 presents industry data for 1950–1987). In 1950, 533 million dozen eggs were broken, a total unequaled until 1967. By 1952, eggs broken had declined to 290 million dozen, the lowest annual quantity in the 1950–87 period. Since then, the quantity of eggs broken has grown at a 3-percent annual

rate to a record 942 million dozen (figure 1). Since 1983 the annual rate of growth has doubled to more than 6 percent, and it increased to almost 11 percent between 1986 and 1987.

Figure 1

Eggs Broken



The large quantity of eggs broken in 1950 resulted in large measure from a general over-capacity in the shell egg industry, which was still adjusting to lower demand following World War II. It should be noted that USDA dried egg purchases (for price support and surplus removal programs) during 1950 totaled over 82 million pounds, the highest calendar year total ever (table 2).

Table 2. Government purchases of egg products

	USDA	purchase	00	Mili	tary purc	hases
	Dried	Frozen	Shell	Total	Shell	Egg
Year	1/	whole	2/		eggs	product
	''				- 55 -	
	1000	pounds		1000	dozen	
1933			4,698	NA	NA	NA
1934			4,699	NA	NA	NA
1935				NA	NA	NA
1936			943	NA	NA	NA
1937			15,038	NA	NA	NA
1938			1,828	NA	NA	NA
1939			8,033	NA	NA	NA
1940			69,519	NA	NA	NA
1941			6,169	62,000	NA	NA
1942			14,079	164,000	NA	NA
1943			571	382,000	NA	NA
1944			167,805	495,000	NA	NA
1945			0	583,000	NA	NA
1946	100	4,223		163,000	NA	NA
1947	46,408	61,320		77,000	NA	NA
1948	28,441			127,000	NA	NA
1949	68,808			62,000	NA	NA
1950	82,424			71,000	NA	NA
1951				155,000	NA	NA
1952			6,794	118,000	NA	NA
1953				117,000	NA	NA
1954				101,000	NA	NA
1955				91,000	NA	NA
1956			17,520	80,000	NA	NA
1957	4,748		9,420	83,000	NA	NA

Table 2. Government purchases of egg products (cont'd)

	USD	A purchase	es	Military purchases					
	Dried	Frozen	Shell	Total	Shell	Egg			
Year	1/	whole	2/		eggs	product			
	1000	pounds		1000	dozen				
1958	4,162			72,000	NA	NA			
1959	19,404	8,157		64,000	NA	NA			
1960	19,048			62,594	59,675	2,919			
1961	22,508			63,694	56,914	6,780			
1962	13,014			70,043	64,737	5,306			
1963	8,397			67,156	62,295	4,861			
1964	15,768			76,247	72,516	3,731			
1965				93,445	74,362	19,083			
1966				101,673	94,008	7,665			
1967	2,430			110,205	107,565	2,640			
1968	16,686			107,551	104,753	2,798			
1969	14,940			82,793	78,051	4,742			
1970	16,587			78,339	74,703	3,636			
1971	31,383			60,305	57,327	2,978			
1972	12,348			63,759	60,840	2,919			
1973	245			41,568	39,301	2,267			
1974	10,728			38,464	36,416	2,048			
1975	2,880			42,551	39,783	2,768			
1976	1,512			45,398	43,450	1,948			
1977	1,692			36,209	33,825	2,384			
1978	5,702			27,874	25,980	894, ا			
1979	6,394			25,208	23,545	1,663			
1980	6,192			24,126	21,850	2,276			
1981	1,800			25,093	22,478	2,615			
1982	1,204			22,380	20,534	1,846			
1983	15,140			25,052	22,757	2,295			
1984	2,880		- -	17,620	15,311	2,309			
1985	9,700			20,203	17,795	2,408			
1986	2,900			17,505	15,991	1,514			
1987	2,900			NA	NA	NA			

1/ Beginning in 1968, USDA purchases were for dried egg mix. Proportions in the mix were 51 percent dried whole egg solids, 30 percent milk solids, 15 percent vegetable oil, 1 percent salt, and 3 percent moisture. 2/ includes quantitles transferred from USDA stocks for civillan feeding: 1948, 21 million pounds dried (63 million dozen; 1949, 703,000 pounds dried (2 million dozen). 3/ NA -- not available

The growing importance of the egg product subsector within the egg industry can be further illustrated by examining its share of total per capita egg consumption. In 1987, egg product consumption (expressed on a shell equivalent basis) was 43.1 eggs per person, 17 percent of total egg consumption, and nearly double the 9 percent in 1960 (table 3).

Table 3. Egg product supply and utilization

V	0:-	D d	1	Total	F	Ch:-	End	Consump	otion	
Year	Begin- ing stocks	Produc- tion	lm- ports		Ex- ports	Ship- ments	End- ing stocks	Total	Per capita	Popu- lation
		Thousand do	zen shell	equivalen	t				No.	Mil.
1960	59,740	442,266	18	502,024	17,264	0	48,705	436,055	29.0	180.671
1961	48,705	482,093	119	530,917	17,018	0	46,587	467,312	30.5	183.691
1962	46,587	481,977	3	528,567	14,257	0	46,529	467,781	30.1	186.538
1963	46,529	445,723	4	492,256	15,426	0	42,038	434,792	27.6	189.242
1964	42,038	500,350	10	542,398	9,827	0	44,135	488,436	30.5	191.889
1965	44,135	477,443	97	521,675	8,051	0	38,767	474,857	29.3	194.303
1966	38,767	471,821	12,250	522,838	3,452	0	27,508	491,878	30.0	196.560
1967	27,508	608,726	3,284	639,518	2,052	0	67,948	569,518	34.4	198.712
1968	67,948	513,858	3,182	584,988	2,801	0	54,629	527,558	31.5	200.706
1969	54,629	486,241	7,422	548,292	1,330	0	32,400	514,562	30.5	202.677
1970	32,400	567,869	7,760	608,029	1,379	4,421	37,897	564,332	33.0	205.052
1971	37,897	642,137	4,844	684,878	2,255	3,987	56,099	622,537	36.0	207.661
1972	56,099	628,560	40	684,699	8,891	4,363	51,738	619,707	35.4	209.896
1973	51,738	547,232	28	598,998	8,930	2,554	32,803	554,711	31.4	211.909
1974	32,803	624,609	36	657,448	13,789	4,635	41,146	597,878	33.5	213.854
1975	41,146	553,147	99	594,392	12,795	3,329	27,536	550,732	30.6	215.973
1976 1977	27,536	591,909	60	619,505	6,481	2,672	19,812	590,540	32.5	218.035
1978	19,812 22,524	686,344 686,024	48 46	706,204	18,625	5,172	22,524	659,883	36.0	220.239 222.585
1979	19,207	701,287	96	708,594 720,590	49,935 35,814	1,942 2,689	19,207 17,737	637,510 664,350	34.4 35.4	225.055
1980	17,737	728,747	93	746,577	63,841	1,605	,	,	34.9	227.757
1981		731,662	214	750,314	114,151		18,438	662,693	32.2	230.138
1982	18,438 16,432	732,707	171	749,310	71,754	2,521 2,065	16,432 19,306	617,210 656,185	33.9	232.520
1983	19,306	731,921	1,187	752,414	56,676	1,421	8,945	685,372	35.0	234.799
1984	8,945	768,927	3,512	781,384	32,443	3,709	10,169	735,063	37.2	237.001
1985	10,169	812,608	4,121	826,898	43,535	1,433	10,008	771,922	38.7	239.283
1986	10,008	857,441	2,713	870,162	75,659	1,146	9,752	783,605	38.9	241.596
1987	9,752	942,083	3,234	953,069	62,648	1,134	13,116	876,171	43.1	243.800

Beginning with this issue of the Livestock and Poultry Situation and Outlook Report, the table entitled "Shell eggs broken and egg products produced under Federal inspection" has been changed to better reflect the relative quantities of the three types of processed egg products being produced (liquid for immediate consumption, frozen, and dried). The data are similar in form to those reported in table 1 of this paper. Previously, the Livestock and Poultry Situation and Outlook Report had reported total liquid egg production. Since much of this production included amounts moving between plants for further processing (such as drying), the amount reported clearly overstated the relative importance of liquid egg in the product mix.

Product Form

Eggs used for breaking are nutritionally equivalent and generally of similar quality to eggs sold in the table egg market. Today a significant amount of shell egg production is designated for the egg products industry. Additionally, production not required by the table egg industry is processed by egg product firms. The bulk of shell eggs used by breakers is sold on racks or in 30-dozen cases and priced on the basis of 48 pounds net weight. They also may be sold in cases priced on a 51-pound basis.

The largest single source of breaking stock eggs is mostly nongraded. These typically come from older flocks and are usually not graded for one of two reasons: too large a proportion of the eggs would be jumbos and extra large, or the shell quality would be too poor for the table markets. Consumers prefer large eggs over other sizes, and this is reflected in requirements given to egg producers. With "too many" jumbo and extra large eggs, it does not make sense to grade them (additional cost, no appreciable benefit). Another reason for not sending the eggs produced by older flocks to graders is the relatively high proportion of expected undergrades due to shell irregularities.

Checks (cracked eggs with interior membranes intact) and undergrades (eggs which are small or have shell irregularities) also are sold to breakers. Requirements of the Egg Products Inspection Act provide that

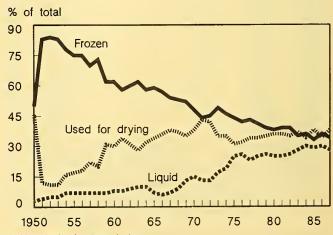
checked eggs may be processed only at officially inspected egg products plants where these eggs can be satisfactorily handled and the resultant liquid pasteurized. Breaking stock is shipped in trucklot loads of 750- to 800-case equivalents (10).

Breaking stock eggs are processed into several forms of egg products: whole, egg blends, yolks, and whites. Each of these products can be sold in liquid form for immediate consumption, frozen for later use, or dried.

Liquid forms can be transported in refrigerated tanker truck loads of 44,000 to 45,000 pounds and in small portable tanks of 1,500 to 2,000 pounds. Liquid and frozen products are generally sold in 30-pound cans and plastic containers. For businesses that typically place smaller orders, such as the HRI trade, consumer packs in 4- to 8-pound plastic milk-type cartons are available. Dried whole egg and yolk are generally packaged in 25- to 150-pound poly-lined cartons and drums while dried egg whites are typically shipped in 50-pound cartons or drums (10).

Pasteurized liquid egg products are used quickly because of their short shelf-life of approximately 10 days. Thus, frozen products serve as temporary storage as well as being convenient for delivery and storage to the HRI industry, which may not have refrigerated storage for liquid egg products, but does have freezer storage available. Dried egg products serve two functions: a much longer storage function and a different type of customer.

Figure 2
Processed Egg Product by Type



Liquid production from eggs broken.

The three major categories—liquid for immediate consumption, frozen, and dried—have moved towards equal shares in today's market. Figure 2 indicates the direction individual components of the egg product industry have moved. Frozen products declined from a high of 84 percent of the total market in 1952, to 34 percent in 1987. Liquid for immediate consumption increased from 3 percent to around 28–30 percent during the last 5 years. Dried moved from 12 percent in 1951 to around 33–36 percent during the last 5 years.

Egg products are used in manufacturing a number of different finished and semi-finished food products. Food items include pastas, cakes, cookies, meringues, frostings, and ice cream. Relatively small quantities of egg products are used in other non-food products such as shampoo, pharmaceuticals, leather tanning substances, and others. The HRI industry uses egg products in cooking.

Prices

Breaking stock eggs are bought on either a contract or spot market basis. Most egg breakers know prior to entering the market just what they can pay for each type of egg based on its yield (whether the egg is a check, undergrade, or in 48- or 51-pound net weight cases), and based on the value of its intended use. By employing the appropriate yield estimates (shell eggs to products), the processor knows how much he can pay for the breaker stock eggs.

USDA's Agricultural Marketing Service (AMS) reports three different spot market prices for breaking eggs. AMS reports prices for trailer load nest run breaking stock on a daily basis, in two categories: 48- and 51-pound net weight cases by region. The greatest portion of breaker eggs is sold as 48-pound minimum net weight per 30-dozen case. AMS initiated collection of these prices in February 1987.

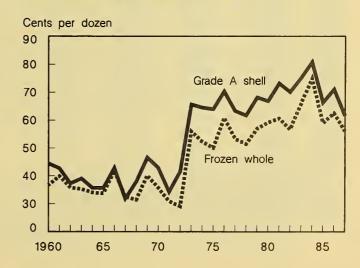
In addition, there are two regional breaking stock market reports issued, daily for the Central States and weekly for the Southeast States. The Central States' report is the oldest and was first released in 1975 (10) and includes a price for undergrades. In the Southeast, prices are collected and reported

on a weekly basis for nest run, undergrades, and checks.

AMS also reports wholesale egg product prices for frozen and dried eggs. Wholesale prices are collected in Chicago, New York, Philadelphia, and San Francisco. Prices are collected for frozen whole eggs, blends, whites, and yolks (sugared and salted). Dried egg prices are collected in the New York market for whole eggs, yolks, albumen (spray dried), and blends.

As would be expected, the price of shell Grade A large eggs is a fairly strong indicator of egg product prices. Breaking stock eggs are priced using a number of different methods. Among these is a 3-day average of the breaking stock quote or a certain amount under the Urner Barry Grade A large quote. Figure 3 compares the New York Grade A (in cents per dozen) price with the New York and Philadelphia frozen whole egg price (expressed on a dozen shell-egg equivalent basis). The frozen egg price moved in the same direction as the shell price over the entire period from 1960 to 1987. The ratios of the frozen egg to shell egg price (figure 4) were also studied. There was very little fluctuation in the series, which reflects the relatively similar dispersions of each price series (using the coefficient of variation computed as the standard deviation divided by the mean). The remaining difference probably reflects frozen egg demand differentials. Table 4 presents wholesale egg product price data for 1960-87.

Figure 3
Wholesale Egg Prices, New York



Ratio of Frozen Egg Product Price to Wholesale Grade A Shell Egg Price



Table 4. Wholesale egg prices: fresh, frozen, and dried

Year	Shell I/	Froz Whole	ven 2/ Whites	Dried whole 3
	Cents/doz.	Cent	rs/lb.	\$/Lb.
1960 1961 1962 1963 1964 1965 1966 1967 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	44.47 42.75 37.32 39.10 35.73 35.69 42.90 31.89 37.97 46.64 42.97 34.36 41.61 65.63 64.49 63.93 70.33 63.27 61.68 68.15 66.86 73.21	27.93 30.35 27.20 26.80 25.66 31.80 24.68 23.88 30.52 27.18 23.49 22.15 42.52 39.72 38.04 46.20 40.66 39.07 43.29 44.96 46.03	8.77 9.84 12.10 15.40 15.22 14.00 14.97 11.53 13.47 19.62 17.84 12.45 11.11 21.15 17.84 20.15 27.25 28.75 29.67 33.20 26.62 25.71	1.30 1.17 1.06 1.09 1.04 1.05 1.31 1.05 .99 1.26 1.20 1.00 .94 1.73 1.64 1.52 1.87 1.66 1.55 1.74
1982 1983 1984 1985 1986 1987	70.10 75.16 80.87 66.36 71.09 61.60	43.03 50.14 56.97 44.78 47.49 42.60	20.45 21.78 22.07 24.30 37.26 31.30	1.75 1.95 2.15 1.78 1.70 1.53

1/ New York price to retailers for Grade A
large. 2/ New York and Philadephia, 30 #
containers, trucklot loads. 3/ Carton or drum.

Regional Distribution of Processed Egg Production

Since the mid-1950's, the distribution of processed egg production has changed dramatically from region to region (North Atlantic, North Central, South Atlantic, South Central, and West). In 1955, the North Central region accounted for over 90 percent of total domestic processed egg production. Although it clearly remains the most important producing region, its relative position fell steadily (and sharply) from 1955 to 1974 (91.4 percent of total U.S. processed egg output in 1955 to 42.6 percent in 1974). During 1974–87, this region's share increased to 52.5 percent of the total (table 5).

During 1955-87, the North Atlantic region expanded its share of total U.S. processed egg production from 1.6 percent to 18.8. The three remaining regions, South Atlantic, South Central, and West, have exhibited broadly consistent patterns of change in their respective shares. Each of their shares ranged from 1.9 to 2.6 percent in 1955, with their relative importance expanding through the middle to late 1970's. Following the period of expansion, these regions have undergone relative declines over the most recent 10-year period.

One important factor in the choice of geographical location for an egg product processing facility is the availability of shell eggs for breaking. Therefore, regional shell egg production during 1955–87 was compared with changes in regional egg product output. The North Central region is currently the largest producer of shell eggs, with 29.4 percent of the total (a significant decline from 47.6 percent in 1955). Production of shell eggs in the North Atlantic region has declined slowly over the period. The South Atlantic, South Central, and West regions all exhibited growth in shell egg production during 1955–87 (table 6).

To examine how changes in the location of shell egg production affected the location of processed egg production, processing as a percent of total egg production was computed for the five regions during 1960–87. These data, along with total U.S. percentages, are presented in table 7. Over this 28-year period, the proportion of U.S. shell egg production that was processed nearly doubled,

Table 5. Processed egg production by region, 1955-1985

	North	North	South	South	West	Total
Year	Atlantic	Central	Atlantic	Central		U.S.
***************************************				·····		
	dinin dinin taka saka dalah baha baha dalah dalah da	Thousand	ds of shell eg	d cases		
		modsam	.s or shorr og	9 04303		
1955	183	10,435	285	297	217	11,417
1956	202	10, 199	280	303	224	11,208
1957	234	11,744	350	389	259	12,976
					275	
1958	224	11,241	375	375		12,490
1959	295	14,735	493	493	412	16,428
1960	253	12,492	423	423	493	14,084
1961	274	13,141	609	609	594	15,227
1962	280	13,039	777	777	669	15,542
1963	264	11,876	881	881	778	14,680
1964	395	12,938	1,021	1,070	037, ا	16,461
1965	469	11,630	1,297	1,094	1,141	15,631
1966	594	12,070	1,610	1,356	1,322	16,952
1967	677	13,465	2,030	1,740	1,605	19,517
1968	838	11,507	2,120	1,781	1,567	17,813
1969	1,219	10,569	2,003	1,916	1,706	17,413
1970	1,576	11,066	2,056	2,498	2,017	19,213
1971	2,335	11,099	2,038	3,056	2,696	21,224
1972	2,659	9,733	2,407	3,182	2,952	20,933
1973	2,317	8,482	2,098	2,772		18,241
1974	3,291	0,402		2,114	2,572	
1975		8,936	2,660	2,762	3,325	20,974
	2,705	7,845	2,022	2,574	3,201	18,347
1976	2,573	8,820	2,456	2,910	3,012	19,771
1977	3,179	10,354	2,452	3,364	3,502	22,851
1978	3,348	10,237	2,329	3,655	3,355	22,924
1979	3,645	10,178	2,431	3,726	3,372	23,353
1980	3,268	11,128	2,486	3,744	3,604	24,230
1981	3,703	11,434	2,190	3,281	3,754	24,363
1982	3,919	11,489	2,279	3,110	3,682	24,478
1983	4,650	11,913	2,085	2,240	3,508	24,397
1984	5,252	12,263	2,085	2,295	3,737	25,631
1985	5,396	13,690	2,427	1,911	3,664	27,087
1986	5,957	14,364	2,382	2,192	3,686	28,581
1987	5,902	16,452	2,373	2,723	3,886	31,336
1707	,, ,,,,	10,772	2,5/5	2,123	,,,,,,,,	71,750

increasing from 8.2 percent to 16.2. The region that exhibited the strongest growth was the North Atlantic, with egg products taking 0.9 percent of total egg production in 1960, but 22.5 percent by 1987. The North Central region found a higher rate of processing, as egg product output rose while shell egg production fell.

Industry Structure

Egg breaking plants have become larger in scale and fewer in number. In 1958, there were 181 breaking plants that produced 481 million pounds of liquid eggs (11). In 1987, 91 plants produced 1,241 million pounds. This represents a 160-percent increase in production over 30 years by approximately half the number of plants. On average, the plants were five times as large in 1987 as they were in 1958 (4).

Production appears to be more concentrated in 1988 than in the 1960's. Even though there are not good comparison data for concentration ratios in the past, there is one study that indicates concentration in the middle 1960s. This study, published in 1966, indicated that the four largest liquid and frozen egg processing firms accounted for 25 percent of total production, and the 10 largest for 46 percent. Dried egg processing was much more concentrated, as the largest four firms accounted for 58 percent of total output, and the largest 10 accounted for 90 percent (5).

According to data collected by the AMS and covering the first 5 months of fiscal 1988, the industry had the following concentration ratios (where CR4 is defined as the percent of industry output controlled by the top four firms) for eggs broken: CR4, 39 percent;

Table 6. Egg production by region, 1960-1985

Year		North Central		South Central	West	Total U.S.
			Thousands	of Cases		
1960	27,508	71,975	22,456	24,414	23,994	171,117
1961	27,339	69,931	23,917	26,450	25,322	173,397
1962	27,036	68,386	25,656	28,439	26,606	176,581
1963	27,292	63,053	28,336	30,186	27,033	176,389
1964	27,639	61,531	30,283	32,961	28,203	181,153
1965	27,714 26,961	59,600 56,944	31,425 33,708	34,322 36,522	28,496 29,217	182,111
1967	27,014	57,436	36,636	40,106	30,813	192,575
1968	26,297	53,225	37,106	40,619	31,485	189,322
1969	26,367	49,447	39,411	39,953	31,878	187,628
1970	26, 176	50,308	39,592	40,411	32,428	189,478
1971	26, 157	52,853	40,856		33,319	193,469
1972	25,516 24,803	52,772 50,267	40,736 39,878	40,303 38,169	32,361 29,726	192,275
1974	24,307	47,742	40,258	37,203	32,172	182,278
1975	26,013	45,161	38,100	36,575	32,419	178,864
1976	23,588	46,136	38,781	37,197	32,874	179,197
1977	24,055	45, 158	38,908	38,472	32,227	179,444
	25,564	46, 697	40,519	39,997	33,105	186,500
1979	26,420	46,717	43,269	41,133	34,054	192,247
1980	27,208	47,214	41,967	41,869	34,687	193,572
1981	26,836	49,369	41,906	41,144	34,070	193,958
1982	26,556	51,575	41,636	39,500	33,778	193,628
	26,989	51,253	39,819	37,528	33,174	189,358
1984	25,867	52,853	39,456	36,747	33,985	189,528
1985	27,481	53,983	38,197	36,761	32,956	190,019
1986	27,114	54,081	38,731	36,975	32,430	189,994
1987	26,208	56,767	38,931	37,294	33, 196	193,033

Table 7. Processing as a percent of total egg production

Year	North Atlantic	North Central	South Atlantic	South Central	West	Total U.S.
			Percer	nt		
1960 1961 1962 1963 1964 1965 1966 1967 1968 1970 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1986 1987	0.9 1.0 1.0 1.4 1.7 2.2 2.5 3.2 4.6 6.0 8.9 10.4 9.3 13.5 10.4 10.9 13.2 13.1 13.8 12.0 13.8 14.8 17.2 20.3 19.6 22.0 22.5	17.4 18.8 19.1 18.8 21.0 19.5 21.2 23.4 21.6 21.4 22.0 21.0 18.7 17.4 19.1 22.9 21.9 21.9 21.9 21.9 21.9 21.9 21.9 21.9	1.9 2.5 3.4 4.8 5.7 5.0 5.6 5.6 5.7 6.3 5.7 6.9 5.5 5.2 6.1	1.7 2.3 2.7 2.9 3.2 3.7 4.4 4.8 6.2 7.7 7.3 7.4 7.9 8.7 9.1 8.9 8.0 7.9 6.2 5.9	2.1 2.3 2.5 2.9 3.7 4.0 4.5 5.2 5.0 5.4 6.2 8.1 9.1 8.7 10.3 9.9 10.9 10.9 11.0 10.9 11.0	8.2 8.8 8.8 8.3 9.1 9.4 9.3 10.1 11.0 9.9 11.5 10.3 11.0 12.7 12.6 12.6 12.6 12.9 13.5 14.3 15.2

CR10, 60 percent; CR12, 66 percent. Thus, the data indicate that the degree of horizontal integration has increased. No current information is available for the concentration ratios of firms producing dried eggs.

In addition to these rough concentration ratios, the AMS has kept information on the egg product firms using its inspection services. The number of these in each area is shown in table 8. The number of firms processing eggs dropped from 153 in 1973 to 91 in 1987. Those producing dried eggs or egg products dropped from 21 in 1971 to 15 in 1987.

There was also some evidence of vertical integration in the industry, although it does not appear that any firm has fully integrated all functions from shell egg production to the production of the final product in the food or other manufacturing industries. Yet, some egg product processors did produce a portion of their own shell egg breaking stock, and some final users (for example, Kraft and Sara Lee) are buying shell eggs and producing their own egg products (4). [The use of the firms' names doesn't imply an endorsement of their products by the U.S. Department of Agriculture.]

Table 8. Egg product plants operating under the mandatory AMS inspection system.

	Egg	E	99	0ther	Total
Year	products without drying	and	oducts dried ggs	1/	
	N	lumber of Pla	ants		
1971	76	21	40	137	
1972 1973	83 84	12 16	55 53	150 153	
1974	82	15	51	148	3
1975	81	15	49	145	
1976 1977	NA 72	NA 19	NA 47	N/ 138	
1978	72 75	19	49	143	
1979	NA	ŇÁ	NÁ	N/	
1980	66	19	35	120	
1981	67	19	36	12:	
1982	64	19	33	110	
1983 1984	64 63	19 17	28 30		
1985	59	17	25	10	
1986	57	15	24	96	
1987 2/	52	15	24	9	

1/ A combination of grading and/or inspection
services other than the others listed.
2/ Preliminary estimate.

Estimating Eggs Broken and Products Processed

Data used in analyzing the egg products market are available from USDA's Egg Products report and other statistical bulletins (1, 6). Annual data sets of processed egg production estimates are presented in table 1. Three characteristics of these data should be immediately noted. Prior to July 1, 1971, egg products were not subject to mandatory inspection by the USDA. After this date, mandatory egg product inspection came under AMS jurisdiction. (Before July 1, 1971, AMS conducted a voluntary program for the inspection of egg products.) Thus, no direct comparisons of the data prior to this date can be made with data in the later period.

Secondly, monthly data were derived from data that were reported on roughly 4-week intervals from July 1, 1971, to September 30, 1982. For periods that span two different months, daily rates were determined assuming constant intra-period production rates and the figures for each month were calculated by distributing the data across the appropriate months. For annual data, the monthly data were then summed.

Lastly, for data prior to 1960, the number of eggs broken was not reported. To obtain the number of eggs broken, total liquid production was divided by 1.317 (2).

Outlook

Growth in the egg products market will depend largely upon what happens to demand from current uses (food manufacturing industries and the HRI) and upon the development of new products. There are several new products that may further increase the demand for egg products in the coming years. Two of them are Simplesse, a fat substitute that replaces fat with milk or egg protein but has the same taste as fat; and a nearly cholesterol-free egg produced by a mechanical process. [The USDA does not, in any way endorse the use of any particular name-brand product or its manufacturer.] Cholesterol is removed from the egg through a fluid extraction procedure using carbon dioxide. This process was recently developed at the University of Nebraska. The process removes 85 percent of the cholesterol in chicken egg yolks and does not adversely

affect the cooking or textural quality of the egg emulsion (3).

If these two new products are successfully marketed, and assuming the convenience food and restaurant trade continue to increase, the use of egg products could expand.

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THE IMPACT OF THE EXPORT ENHANCEMENT PROGRAM ON U.S. POULTRY EXPORTS,

by Lawrence Witucki

Abstract: The Export Enhancement Program's (EEP) purpose is to promote U.S. farm exports, particularly in markets where competing exporters are subsidized. Exports are promoted under the program by offering bonuses to U.S. exporters in the form of CCC generic certificates sufficient to make the export sale viable. Under the poultry EEP, export sales began in 1986, and had a large impact on U.S. broiler and egg exports during 1987. EEP sales targets for 1988 are substantial but increases in 1988 EEP exports are likely to be more difficult due to intensified competition, and to increases in production in some target countries.

Keywords: Export Enhancement Program (EEP), broiler exports, egg exports, subsidies, bonuses, CCC, generic certificates, European Community.

The Export Enhancement Program (EEP) is a USDA program designed to help exporters of farm products meet prevailing world prices for targeted commodities and markets. Its main goal is to expand farm exports through market development. Other objectives are to challenge unfair international trade practices and to encourage serious negotiation on agricultural trade problems, particularly with the European Community (EC). USDA first announced the EEP in May 1985, with funding through the Commodity Credit Corporation Charter Act. The program was made mandatory from October 1, 1985, through fiscal 1988 by the Food Security Act of 1985. Initial funding under this act was for use of agricultural commodities equal in value to \$1.0-\$1.5 billion. Extension of the program beyond the expenditure of \$1.5 billion was announced on July 30, 1987. Funding authority for the extension is also provided through the Commodity Credit Corporation Charter Act.

Over 60 countries are eligible for the EEP. These are markets where U.S. commodity exporters must compete with subsidized suppliers from other countries, especially the EC. Guidelines in the establishment of EEP sales initiatives include the following: (1) the initiative should result in additional U.S. exports (2) only competitors who subsidize should be targeted, and (3) a net economic benefit should result without increased budgetary costs.

USDA announces each EEP initiative, including its terms and conditions, with invitations to exporters to submit bids for a CCC bonus. Export sales are made by interested, qualified, private U.S. firms and corporations who first come to a tentative agreement on terms such as price and quantity with buyers in the targeted country. Then the potential exporters place bids with USDA for a bonus that would make the sale viable, and permit the export to be carried out.

The CCC reviews bids in the following manner:

Before 3:00 p.m. of each business day, the General Sales Manager establishes an acceptable range of prices for sales contracts and of the CCC bonus values. If an offer is within the range established, it is accepted by the General Sales Manager provided the offer otherwise conforms to the requirements of the Announcement and Invitation.

In determining the acceptable dollar and cent value of the CCC bonus, the General Sales Manager takes into consideration factors such as the prevailing market price of eligible frozen poultry for export to the eligible country, the prevailing market value of frozen poultry exported by other exporting countries to the

eligible country, ocean freight rates for such exports, and the particular characteristics of preferences or purchasing practices of buyers in the eligible country which would customarily affect the acceptability of eligible frozen poultry relative to that of competing frozen poultry for export to the eligible country from other exporting countries.

The General Sales Manager only considers offers that provide for shipment from a U.S. port of no more than 6 months from the date an offer is submitted for consideration. The General Sales Manager will endeavor to issue a notice at least 3 business days in advance of the time when CCC will no longer consider offers.

After the commodity has been exported, the bonus is paid to the U.S. exporter in the form of a generic certificate with a stated dollar value. The exporter can redeem the certificate for a like value of a commodity (primarily grains) from the CCC stockpile. A certificate must be redeemed within 6 months. The bonus commodities are made available at one of the many CCC warehouses. The exporter may also sell or exchange the certificate rather than taking delivery of the commodity.

EEP for Poultry Meat

The first-announced EEP initiative on June 4, 1985, was for the sale of wheat to Algeria. The first poultry initiative came about 6 months later. It was announced on November 26, 1985, for the sale of 17.6 million pounds of frozen chicken meat to Egypt. As of mid-April 1988, 163.1 million pounds had been sold to Egypt under the EEP. Iraq is another large participant, with sales of 143.3 million pounds of poultry meat as of mid-April, and an additional 77.16 million pounds currently targeted to be sold. Smaller quantities of broilers have been sold under EEP, to the Canary Islands, the Dominican Republic, and Singapore (table 1).

U.S. broiler exports under EEP during 1986 and 1987 were about 249 million pounds, or 19 percent of total U.S. broiler exports during those 2 years. The average export unit value for U.S. broiler meat during 1987 was

\$1,038 per ton, or 47 cents per pound (down 1 percent from 1986), and the average bonus paid from inception through April 15, 1988, was \$660 per ton, or 30 cents per pound.

For 1988, newly targeted countries announced for EEP frozen chicken sales include Saudi Arabia, 44 million pounds, the Persian Gulf countries of Bahrain, Kuwait, Oman, Qatar, and the United Arab Emirates, 35.3 million pounds, and Zaire, 15.4 million pounds (table 2).

Chicken meat sales opportunities announced under EEP totaled 501.5 million pounds and actual sales totaled 329 million pounds through April 15, 1988. With an average bonus of about 30 cents per pound, the bonus value was approximately \$98.5 million, about 5 percent of the total bonus value paid to exporters of all EEP commodities. Sales of grains and products, particularly wheat, account for most of the program.

As table 2 shows, a relatively large amount of EEP-targeted chicken meat remains to be sold, most of it to Middle Eastern countries.

EEP for Eggs

Table eggs are also sold under the EEP. As of April 15, announcements of table egg sales opportunities totaled 34.67 million dozen, not including an initiative to Algeria which was withdrawn as Algerian self-sufficiency increased. Sales totaled 27.58 million dozen as of mid-April, and the total bonus value was \$9.26 million, an average of 34 cents per dozen. The average export unit value for all U.S. table egg exports during 1987 was 59.7 cents per dozen, down from 81.5 during 1986. Leading EEP markets were Iraq, purchasing 14.8 million dozen and Hong Kong, 7.77 million dozen. Actual exports under EEP during 1987 are estimated at 18 million dozen and accounted for about 60 percent of total U.S. table egg exports (table 3).

With the April 15 announcement of an opportunity to acquire a bonus by selling an additional 5 million dozen, the Near East became a main target for 1988 EEP egg sales. The countries involved are Bahrain, Kuwait, United Arab Emirates, Oman, Qatar, and the Yemen Arab Republic (table 4).

As of February, the major 1988 importers of U.S. table eggs were the EEP-targeted countries of Iraq with 4.3 million dozen imported, Hong Kong about 2 million dozen; and the United Arab Emirates, 1.1 million dozen. Oman, another EEP market, had imported 121,000 dozen or less than the non-EEP countries of Canada and Mexico.

Mixed poultry feed has also been sold under the EEP, with sales totaling 111,468 tons as of April 15, all to the Yemen Arab Republic. A further 225,032 tons are targeted for sale to Yemen. In December 1987, a bonus of \$85 per ton was offered for these exports.

Prospects

In 1987 U.S. broiler exports increased by nearly 33 percent over 1986. This growth was due to a combination of additional EEP sales, and to increases in non-EEP exports to countries such as Japan, Hong Kong, and the Caribbean. Exports under the EEP in 1987 accounted for about 73 percent of the increase in exports, and for about 26 percent of total broiler exports.

The EC responded to the EEP by raising subsidies on exports to the Middle East in the fall of 1987. In March 1988, the EC raised export subsidies again, by 20 to 32 percent, with the subsidies in some categories of chicken meat exceeding \$700 per ton or about 32 cents per pound. Almost all countries that the United States has targeted for EEP exports are now also covered by increased EC subsidies. Larger bonuses may be needed to remain competitive, especially since U.S. domestic broiler prices have recently strengthened, moving above a year earlier during some weeks.

While the EEP was used very successfully to expand U.S. poultry meat exports in 1987, indications are that market conditions may be less favorable in 1988. The increased EC subsidy for the Middle East and elsewhere will increase competition from the EC. Also, increased domestic production in Egypt and Iraq is likely to reduce their imports during 1988. The EC in March also increased export refunds on some types of eggs. For table eggs the subsidy was raised about 7 percent, to the equivalent of about 28 cents per dozen. The 1987 success of EEP in increasing egg exports may be difficult to duplicate in 1988.

Table 1--U.S. exports and sales of broiler meat under the EEP

Importers	Quantity	Average I/ export unit value	EEP's share of all U.S. broiler exports
	1,000 lbs.	Cents/lb.	Percent
1986			
Egypt Dominican Republic	55,166 1,289	39.3 46.1	100 57
Total EEP	56,455	and some	10
1987			
Iraq Egypt Canary Is.	128,923 55,851	46.1 36.3	100 100
of Spain Dominican	5,500	43.9	65
Republic Singapore	2,018 265	41.7 46.7	56 0.5
Total EEP	192,557		26

I/ This covers total U.S. broiler exports, not just EEP.

Sources: U.S. Census data; Foreign Agricultural Service.

Table 2.--Current status and outlook for EEP broiler meat sales in 1988 I/

Importers	Sold for 1988 export	Invitations to submit offers announced, but sales not yet made
	1	,000 lbs
lraq Egypt Canary Is. Dominican	14,376 52,124 3,318	77,161 0 2,205
Republic Singapore Saudi Arabia Persian Gulf countries 2/	0 357 1,102 8,776	4,409 3,787 42,990 26,497
Zaire 3/ Total	0 80,054	15,432 172,481

1/ As of April 15, 1988. 2/ Includes Bahrain, Kuwait, Oman, Qatar, and the United Arab Emirates. 3/ Mature chicken meat.

Source: Foreign Agricultural Service.

Table 3.--U.S. table egg exports under the EEP in 1987

Importers	Quality	Average 1/ export	EEP's share of all U.S. egg exports		
Importor 3	,	unit value	Table All eggs 3/		
	I,000 dozen	Cents/dozen	Pe	rcent	
Iraq	12,650	50	100	100	
Hong Kong	4,000 2/	60	42	39	
Dominican Republic Near East	764	52	100	40	
United Arab Emirate	es 611	57	100	100	
Oman	15	82	100	100	
Total EEP	18,040		61	16	

1/ This covers all U.S. table egg exports, not just EEP. 2/
Estimate. 3/ Includes shell equivalent of egg products.

Sources: U.S. Census data; Foreign Agricultural Service.

Table 4.--Current Status of EEP table egg sales I/

Importers	Sold for 1988 export	Invitations to submit offers, but sales not yet made	
	- 1,000 dozen -		
Iraq Hong Kong Dominican Republic Near East Total	2,171 3,667 161 3,541 9,540	929 0 1,158 5,000 7,087	

I/ As of April 15, 1988. U.S. egg sales under EEP starting in late 1986 through 1987 totaled 27,580,000 dozen, and 7,087,000 dozen remain to be sold under programs initiated as of mid-April, 1988.

Source: Foreign Agricultural Service.

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